

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

APRIL 15, 1953



By mistake the April 15th issue was bound  
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[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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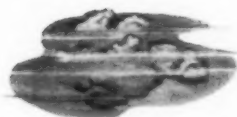
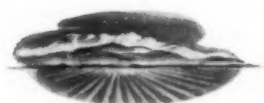
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Forms for the May 1 issue will close Monday, April 20.

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Mail copy to arrive at Chicago by these dates—no later!

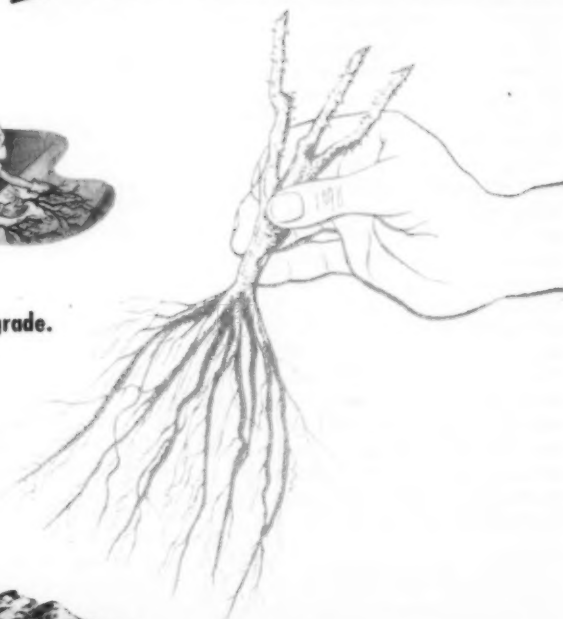
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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

KENNETH A. BRENT  
*Managing Editor*

## Editorial

### TREE MARKERS

To some customers a tree is a tree, and the nurseryman has a difficult time selling them more than one apiece for their home grounds. But customers who know the different characters of maple, birch and hawthorn may wish to find a corner for one more tree.

Opportunities to learn the different characters exist, but they should be closer to the average citizen. Let the knowledge be thrust upon him, rather than merely available.

In parks and other public grounds, in cemeteries, in some churchyards and hospital grounds, on college campuses, on some golf courses indeed, have been planted a considerable variety of trees—not a young arboretum to be sure, but enough for the education of the average citizen in the different trees that thrive in his locality.

Were such trees marked plainly, so as to be observed by passing pedestrians without searching for a label, the acquaintance with trees—and shrubs, too—by the nurserymen's prospective customers would be easily extended. Yet few tree markers are installed, even in parks presumably for the enjoyment of nature. Here is a project in "Plant America" in which a nurseryman individually may accomplish much good. By his own efforts, or through civic organizations, he can better his prospects in his own locality while performing a distinctly public service.

### PACKAGING

One has only to walk through a supermarket of today to note what remarkable advances have been made in packaging products to suit consumers' needs and to facilitate selling these products. In the grocery staples—the nurseryman may take comfort—the only items still not largely packaged are the fresh fruits and vegetables; their perishable nature creates problems, just as in the case of nursery stock.

Yet if the nurseryman can recall the appearance of the groceries for which he was sent to the store as a boy, he will marvel at the ingenuity

of the packaging experts today. And the same ingenuity is to be seen in drug, hardware and notion stores. Everywhere it has been found well worth the effort to put products into attractive containers which would make it easy for the customer to buy and use.

In the past generation some changes have been made in packaging nursery stock, but these are few. Roses undoubtedly have felt stimulation in their sales through the use of lightweight pots and through their boxing for store sales. Some shrubs have been similarly treated, but not many. Gallon cans have greatly aided sales in California and are coming into use in other states.

While evergreens have increased in popularity, they still are sold in unattractive burlapped balls. Some use has been made of baskets and wire containers, but these have not become popular. Maybe, now that balling machines are appearing on the market, containers can be used for the evergreens so handled.

The greater proportion of the nursery stock to be sold through garden stores, salesyards and other retail outlets away from the growers' premises will make more important the appearance and ease of handling of all types of plants. Study and ingenuity directed toward better packaging of them will aid greatly the advance of the industry.

### TO THE CHARITABLE

In recent years requests made of nurserymen, particularly the large wholesale growers, for donations of plant material for ostensibly civic or philanthropic purposes have become numerous. Some are worthy and should be granted, as they are. Others are so flagrantly unworthy that little time is given them. But there is a considerable group—one that seems on the increase—which has a speciously good appearance, yet is the forerunner of trouble, to the donor perhaps and certainly to the nurserymen of the locality.

To go into the various sorts of such requests would take much space, and an example will cover the matter instead. The boom in home building and the greatly increased interest in gardening by the rank and file of the public have focused the attention of some folks in the educational world on horticultural activities.

In some cases, as have been reported in these columns, the results have been beneficial to all involved. But too many start inadequately, proceed lamely and later wander far from their goal.

Now and then, an instructor in a trade or vocational school gets the notion of adding a class on plant growing. Maybe the instructor is a back-yard gardener with a green thumb; maybe not. Seldom does he know enough or make sufficient effort to plan a rounded program for such a course, let alone a curriculum that is recognized. When he goes to his superior with the notion, he volunteers to secure the materials and equipment at small cost and throws out the added inducement that shrubs and trees could be grown for adorning the school grounds without cost.

The next step is to ask nurserymen, near and far, for donations of seeds, cuttings and plants, and to ask local supply and equipment dealers for donations of necessary equipment and supplies. Even if they wholeheartedly respond, the success of the educational program is far from assured. At best, until there is real demand for a fully organized curriculum, it is makeshift instruction, and the students get little out of it but the exercise they put in, as field labor, to grow such plants as will survive long enough to be set out on the school grounds. Of course, after a while there are too many for the grounds, and so the surplus is given away, to the families of the students, to neighbors, to the town, to civic groups, etc. What got its start as an educational project winds up just as clearly a state-supported nursery, though far down the scale, as the producer of forestry seedlings authorized by law and legislative appropriation. If the local nurseryman complains that the school has gone too far astray in the end, he is charged with commercialism, a taint he did not have when he donated stock.

The larger nursery firms have had so many requests of this and similar kinds that they, from experience, are more capable of discerning the worthy from the unworthy. Some have adopted a policy they can apply to all applications received. Thus they seek to support what is good for the industry and public alike, and they discourage half-

[Continued on page 75]



The circle at right frames the "Picture Window Garden," presented by the New York State Nurserymen's Association at the International flower show, New York. In the picture at lower left, Clif Sammis, left, who designed the exhibit for the association, looks it over with three association officers, (left to right) Al Synesael, secretary-treasurer; Robert Auld, president, and Charles Mouquin, vice-president.



## FLOWER SHOWS

### *Nurserymen Greet the Spring with Lavish Displays*

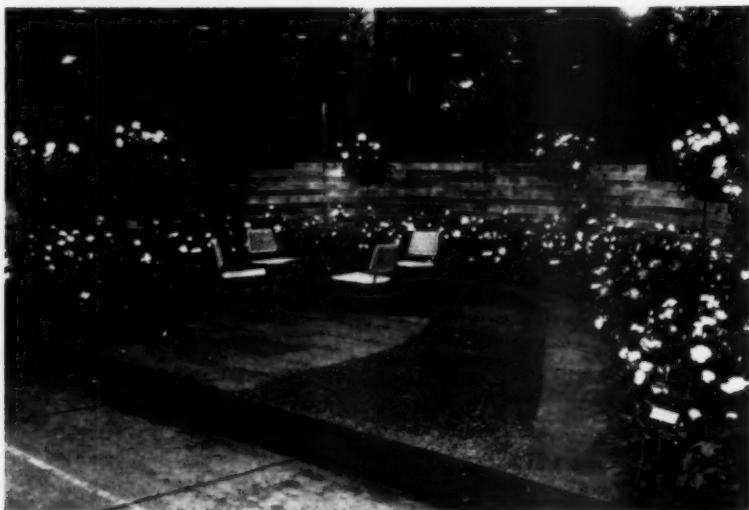
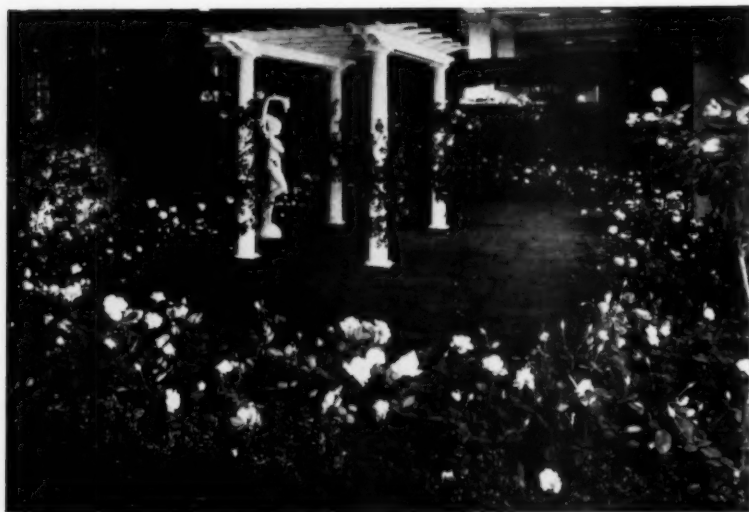


**S**YMBOLIC of the arrival of spring in America are the flower shows. The reawakening of nature is heralded by magnificent displays reflecting the highest refinements of man-made and natural art. The nursery industry plays an integral part in these undertakings, demonstrating to a receptive public the beauty and wholesomeness of its products. In this article are chronicled a number of the nation's outstanding shows, with emphasis on the achievements of the nursery industry.

Spring made its debut at the Grand Central Palace, New York, March 8 when the International flower show, sponsored jointly by the New York Florists' Club and the Horticultural Society of New York, made its 37th annual appearance against a background of snow and blustery winds.

A Sunday opening, which proved so successful last year, was once again instituted. Opening-day crowds, though large, were somewhat reduced in number because of the bad weather and an increase in the admission price over last year; the increase was in effect only on Sunday. The remaining six days of the show, the price remained the same as in former years. Throughout the week crowds jammed the four





exhibition floors to see the outstanding displays of flowers and gardens. Special excursion trains servicing outlying areas were pressed into service by leading railroads to handle the heavy traffic bound for the show.

Because of the adverse weather conditions, exhibitors took extra care to deliver their blooms in good condition. Heated trucks were used by some persons, but even these failed to prevent some damage by frost. By and large, however, the blooms on display were rated to be among the best used in many years.

The exhibits revealed that progress made in growing procedures and the new trends in garden designs have been employed by the younger elements in the trade in an effort to keep pace with the general public's desires and needs.

In the commercial group of gardens in the 1,000 square foot class, Daybreak Nurseries, Westport, Conn., were awarded a gold medal certificate. The naturalistic design was built around an old, weather-worn mill and wheel. The wheel was operated by a stream of water that emptied into a pool at the base of a moss-covered fieldstone platform. Banks of azaleas and andromedas surrounded the pool. Flowering dogwood, white birches and pine in one corner had grape hyacinths, ivy, ferns and primroses planted at their base. The same varieties were also used along each side of a narrow path leading to the mill.

#### Modern Rose Garden

In the same class, Donald Rochrs, Franklin Lakes, N. J., took a gold medal certificate for a modern rose garden, in contemporary design, arranged to simulate a window wall. Light blue corrugated glass sheeting formed the wall and accented the color of the roses, which included Sutter's Gold, Confidence and Nocturne.

A huge hemlock was placed to the

The top photo at the left pictures a rose garden called "June in Bloom," which won a gold medal at New York's International flower show for Bobbink & Atkins, East Rutherford, N. J. It featured hybrid tea roses, climbers, floribundas and tree roses. The center photo shows a rose garden of the Conard-Pyle Co., West Grove, Pa., at the Philadelphia flower show. Designed by Don Rochrs, Franklin Lakes, N. J., the garden received a first prize. The bottom photo shows an outdoor living room exhibited by Styer's Nursery, Concordville, Pa., at the Philadelphia show. The display covered 1,600 square feet and was a first prize winner.

The urban garden pictured in the top photo at the right won a first prize for the Peter Cascio Nursery, West Hartford, Conn., at the Connecticut flower show. The garden is 12x22 feet. The center photo shows a "Garden by the blue Pacific," exhibited by Armstrong Nurseries, Ontario, Calif., at the California international flower show. It featured an outdoor living area overlooking the ocean and a California garden in the foreground. In the bottom picture is shown a tropical garden by Rosedale's Nurseries, Monrovia, Calif., at the California show. The garden included 1,000 azaleas, espaliered pyracantha in bloom, camellias and tropical plants.



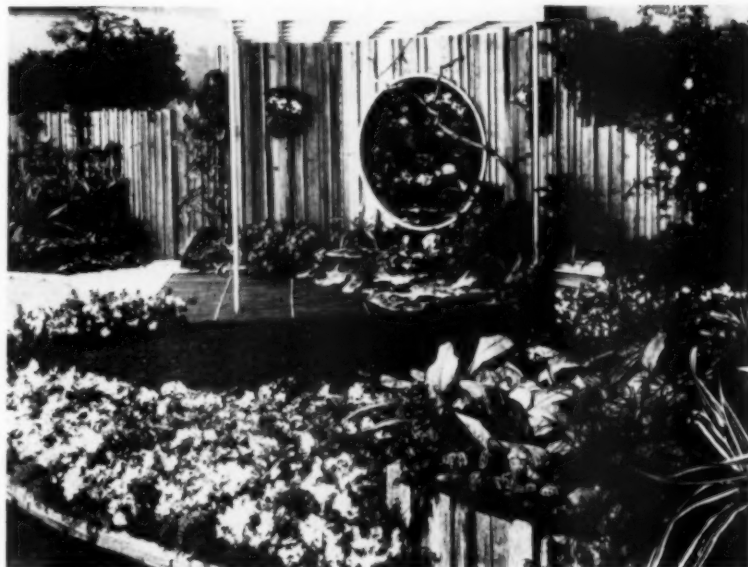
right of the patio leading into the entrance of this exhibit. The corrugated glass backdrop was in four separate partitions and anchored at each end by two rectangles containing suspended freeform designs. This exhibit expressed the growing popularity of the summer garden as an added room.

Bobbink & Atkins, East Rutherford, N. J., won a gold medal certificate in the 1,000 square foot class with a June rose garden of formal design, featuring the varieties Fashion, Good News, Nocturne, Red Pinocchio and Lowell Thomas in a regular planted pattern. A pergola, backed by a privet hedge, faced two entrances, and each column was adorned with a Mrs. Whitman climber rose. A white statue was placed under the pergola to form an added focal point. White birch and privet plantings were at each end of the design, and small plants of *Taxus capitata* were used to outline the rose beds. A view of this garden may be seen on page 8.



#### Garden Design in Two Parts

Brookside Nurseries, Darien, Conn., were awarded a gold medal certificate in the same class for a garden design in two parts. One half of the area was devoted to a formal garden featuring the latest varieties of hardy azaleas from the Glenn Dale, Md., experiment station of the United States Department of Agriculture. A grass panel in this garden sloped gently down from a long wooden bench that was backed by a planting of deciduous and evergreen shrubs. The above-mentioned azaleas were intermingled with flowering rhododendrons and banked at each side of the grass panel. An inconspicuous entrance at the right led into a garden work area and to a small greenhouse. Small, symmetrical plots were formed by crisscross-



[Continued on page 77]

# Release Nursery Trade Analysis

## First of a Series

Significant figures relative to the production and distribution of the products of the nursery industry have been released by the bureau of agricultural economics, United States Department of Agriculture. The figures show that the 10 leading metropolitan market areas of the country, as determined by the bureau of the census,\* represent 26 per cent of the nation's population and dwelling units, 30 per cent of all retail trade, 21 per cent of the wholesale value of ornamental horticultural crops and nearly 30 per cent of the retail trade of ornamental horticulture. As shown in the table at right, data have been assembled to indicate the relative importance of these 10 leading markets, 118 other metropolitan market areas and the rest of the country.

In the 10 leading market areas, the wholesale value of ornamental horticultural crop production failed to meet the demands of the retail trade in these areas to the extent of about 8 per cent. Ornamental horticultural crop production and retail trade of the 118 other metropolitan markets exceeded that of the 10 leading markets by about 6 per cent in both instances. Retail growers of the 118 secondary markets were considerably more important than those in the 10 leading markets. About 35 per cent of the retail trade of ornamental horticulture was conducted in the 118 secondary markets.

The 10 leading markets and the 118 secondary markets taken together represented 54 per cent of the United States totals for population and dwelling units, 61 per cent of all retail trade, more than 48 per cent of the wholesale value of ornamental horticultural crops and more than 64 per cent of retail trade in ornamental horticulture. Looked upon as an entity, the 128 markets produced retail trade which exceeded the available production of ornamental horticultural crops in the areas by about 15 per cent. Retail growers in the 128 markets represented more than 53 per cent of the United States total for this kind of retail trade in ornamental horticulture.

An analysis of sales of ornamental horticultural products indicates that,

\*These 10 areas are, in order of population, New York and northeast New Jersey, Chicago, Los Angeles, Philadelphia, Detroit, Boston, San Francisco and Oakland, Pittsburgh, St. Louis and Washington, D. C.

in 1949, retail sales of ornamental horticulture amounted to \$2.32 per capita, nearly \$7.60 per dwelling unit and about one-quarter of 1 per cent of all retail trade in the United States in 1949.

For retail ornamental horticulture, the St. Louis metropolitan area had the highest sales per capita, about 175 per cent of the United States average. The New York-northeast-

ern New Jersey area was about average, while the per capita sales in the Boston area were only 85 per cent of the United States average. As a group, the 10 leading markets experienced per capita retail sales of ornamental horticultural crops of 110 per cent of the United States average. In the remaining 118 standard metropolitan areas, the retail sales per capita were 127 per cent of the United States average for retail ornamental horticulture.

Sales per capita, per dwelling unit  
[Continued on page 76.]

## Summary of Sales of Horticultural Specialties among Specified Markets, United States, 1949.

### GENERAL DATA\*

Item	Unit	United States	Metropolitan Economic Areas			Rest of United States
			Total	10 Leading	118 Other	
Population	Percentage Distribution	100.0	54.0	26.3	27.7	46.0
Dwelling Units	Percentage Distribution	100.0	54.1	26.4	27.7	45.9
All Retail Trade—Sales	Percentage Distribution	100.0	61.5	30.5	31.0	38.5
Total Retail Sales Per Capita	Dollars	866.11	986.10	1,002.85	970.18	725.04

\*"General Data" refers to population, dwelling units and retail trade for the nation as a whole and is furnished for comparison with the figures specifically pertaining to commercial ornamental horticulture.

### COMMERCIAL ORNAMENTAL HORTICULTURE

Item	Unit	United States	Metropolitan Economic Areas			Rest of United States
			Total	10 Leading	118 Other	
Wholesale Value of Nursery Crops	Percentage Distribution	100.0	48.5	21.1	27.4	51.5
Retail Ornamental Horticulture Sales						
Total Sales	Percentage Distribution	100.0	64.3	29.2	35.1	35.7
Sales by Retail Growers	Percentage Distribution	100.0	53.2	22.0	31.2	46.8
Sales by Others	Percentage Distribution	100.0	67.7	31.4	36.3	32.3
Per Capita Actual	Dollars	2.32	2.76	2.57	2.95	1.80
Percentage of United States Average	Per cent	100.0	119.0	110.8	127.2	77.6
Per Dwelling Unit	Dollars	7.58	9.02	8.38	9.62	5.89
As Percentage of All Retail Trade	Per cent	.3	.3	.3	.3	.2
Wholesale Value of Crops As Percentage of Retail Ornamental Horticulture	Per cent	20.3	15.3	14.7	15.8	29.3





Illustration A. (See Text).

## Tips for Better Landscapes

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, Farmingdale, N. Y.

### TREES FOR ENTRANCES

Doorways and their immediate areas seem to suggest the use of shrubs to most landscape planners, and rightly so, because shrubs adapt themselves best to the majority of entrances. There are cases, however, when a more interesting and inviting doorway may result from the use of tree-like shrubs or small trees, as may be seen in illustrations A. and B.

What conditions favor the use of open-stemmed shrubs or small trees? Houses that are surrounded by large trees suggest this practice, particularly if the home is of fairly large proportions. Driveways that lead to the entrance of these structures generally approach the home from the side so that the view along them is not on a straight line. Such introductions to the home must be carefully planned and treated with great finesse. Since the larger trees frame the home and the driveway may act as an arrow, it is well also to frame this area of invitation, the entrance, more artistically.

Of course, the planting must be in scale with the house and its surroundings. An average home on property of average size generally is not large enough to accept either large shrubs or small trees near the

doorway unless the door is definitely recessed or on the side of a house projection.

Small trees at the doorway are more effective when the home and its entrance are viewed principally from a distance of 100 feet or more, preferably much more. Doorways which are flush with the broad front of the house are not so well-suited as those that are recessed. The arching tree or trees create a greater feeling of depth to the entrance. Whenever such a reaction can be produced by planting it is wise to

take advantage of it. After all, reactions indicate that something interesting has been achieved; plantings that evoke no reaction except a so-so response are not the most desirable.

Small trees at an entrance also provide an interesting pattern of shadows over and around the doorway. This is noticeable in illustration A. The entranceway in this photograph seems deeper than it actually is for two reasons. A tree in the foreground creates the effect of a third dimension just as an artist may do in a painting when he places a few branches or a tree in the immediate foreground. The shadow pattern also emphasizes this effect.

The foliage should be mostly near the top half of the tree, with one or more clean stems breaking the house wall. A desirable touch may sometimes be added by a vine growing on the trunk of a tree which is in harmony and scale with the ground cover or nearby foundation planting.

The 2-stemmed tree at the right of the doorway in the photograph is a mountain laurel, *Kalmia latifolia*. Such a species cannot always be found in this form, but there are others that can produce the same results. The use of the *pachysandra* ground cover adds to the planting because it not only carries you to the doorway, but has a coarse enough texture to become part of the foundation planting itself.

There is also a tree form at the left of the doorway, but it is only partly visible in the photographs. It is a flowering dogwood whose trunk is partly covered by a small-leaved variety of English ivy, which tends to prevent the dogwood's main stem from attracting too much attention. Its horizontal branching cooperates

[Continued on page 48]



Illustration B. (See Text).

## Stretching the Selling Season

# Why Not Open Evenings?

By Fred J. Nisbet

For many years northern nurserymen have been explaining—or complaining—that they must account for 80 per cent of their year's business in 125 days. Such a schedule taxes each productive day tremendously in terms of overhead and other fixed expenses. It would certainly be convenient if April and May could be stretched to 35 or 40 days to take advantage of the peak season.

Many methods have been tried to extend the productive days to other months. The potting of plants to make it possible to move them in off seasons is a well-known example. The newer development of plastic sprays to permit out-of-season transplanting of trees and shrubs is also proving helpful along this line. In spite of these efforts, not enough progress has been made. Possibly this is because customers are too firmly convinced that spring and fall are the only possible seasons for most garden work.

This situation seems to leave two avenues open for progress. First, nurserymen must continue devising methods for the safe handling of plants in off seasons and educate the public to accept unaccustomed planting dates.

### Evening Hours Offer Solution

Second, each productive day must be made more effective. This can be accomplished in many nurseries by extending selling hours into the evening. The shift to evening openings has already swept the field of general merchandising. Many merchants have fought the trend and inveighed loudly against it. Most customers like it, however, and respond to the added hours with added purchases. Note that they do not just change their time of shopping for the usual items—they buy more. In some fields, especially where the merchandise has a big "dollar tag," the evenings account for far more than their proportion of a day's sales.

This trend toward evening selling hours is still too new to have been clearly analyzed. In fact, many store managers have opened during the evening just to follow the trend, without knowing with any certainty whether such a course was justified in their line and location. Such a sheeplike attitude has little to commend it, for by taking even a small

customer survey, it should be possible for any nurseryman to evaluate the advantages of evening hours in his locality.

### Meet Competition on Their Terms

One important fact is apparent—merchandisers in many fields are going after the expendable income of the American consumer at a time when too many nurserymen are not competing at all! Whether nurserymen like it or not, they must meet the sellers of refrigerators, rugs, television receivers, etc., on their terms if they are to receive a fair share of the money which the public has to spend. Otherwise, it is inevitable that the nursery industry will lose out in the competition for even its presents small percentage of the expendable income.

Shortly after the war, some merchandising executives refused to join the trend to evening openings. Their numbers dwindled rapidly as the value of these hours became increasingly apparent. In an article dealing with this topic, *Fortune* magazine stated that, by 1952, 80 per cent of all American cities had evening openings at least one night a week, and this was true of 90 per cent of all cities of more than 200,000 population. Most discussions of this problem imply that late openings are more profitable in cities and metro-

politan areas. This inference probably is not justified.

Skeptics have had two main objections to the plan. They claimed that the increased wages, at time and a half, would eat up most of the increased profits, and they were certain that employees would be dissatisfied if they had to work nights. Neither of these dire predictions has been realized. In many cases the sales payroll has not increased at all, as employees' hours have been staggered. A salesman who is to work late comes in late. While this department store method would apply to most nurseries, the store's policy of giving an extra day off each week probably would not. Five-day weeks during the rush season do not seem to be the answer for the nursery trade.

### Opening Later Advantageous

Another method which is widely used is to delay the opening of the sales division on the days of evening openings. This brings up a point which needs some thought. Why do many nursery salesyards open at 8 a. m. and close at 5 p. m.? It is probably just from habit, as it seems impossible that it could be the result of real thought. The early morning hours, almost without exception, are slow, but at closing time it is usual to have the place jammed with customers. Opening at 9 a. m. and closing at 6 p. m. would be a decided improvement in most areas and would make an even swap of a poor hour for a busy, profitable one.

To return to the major problem, [Continued on page 73]

## Memphis Garden Shop Attracts Trade



The garden shop entrance of the Summer Avenue Nursery & Garden Shop, Memphis, Tenn. B. O. Harrison, owner of the firm, had the garden shop constructed the past summer so as to be able to sell a complete line of garden supplies in conjunction with stock sold from his nursery salesground. The store was designed and the construction directed by Kirby Stringer, Memphis architect. The store is 30x30 feet and contains a 10x30-foot workroom in the back. A 30-inch-wide display bed decorates the exterior and makes it possible to exhibit the nursery stock as well. Mr. Harrison finds the volume of business attracted to the store greater than he had expected.



## Sound Nomenclature

### *A Business Asset*

*By Wendell H. Camp*

Some time ago a certain self-styled philosopher twitted man about his "passion for classifying things"—and then proceeded to catalog his argument with the usual numbered "points." In brief, he was doing what every thinking person does—arranging things in some sequence or order. The classification of plants, arranging them in some sort of order, is not a new thing for, if primitive man had not learned which were useful and which were poisonous and passed this on as part of the family or tribal lore, it is more than likely that we would not be here today. As speech slowly evolved, man learned that the easiest way to remember things was to give them names. And that is how our system of nomenclature (naming things) came into being.

It should be understood that classification and nomenclature, although partly dependent, are actually distinct activities. The classifier of plants classifies those individuals which appear to be most similar into species, those species which have certain characters in common into genera, groups of apparently related genera into families and so on. What these species, genera and families are to be called is a problem in nomenclature, and this latter activity has always been a troublesome one.

## The Naming of Plants

When human populations were relatively isolated, it made little difference that a particular plant was known by one name in one area and by another elsewhere. But, with bet-

Text prepared by Mr. Camp for publication from an address delivered at the Ohio short course for nurserymen, January 21, 1953, at Columbus, O.

ter communication and the invention of the printing press, it became evident that the accumulated information about useful plants was essentially unavailable without some sort of common nomenclature. This confusion troubled the great Swedish botanist, Linnacus, and he solved the problem by compiling an encyclopedia of all of the kinds of plants then known throughout the world. He evolved his own system of classification and description and, almost by accident, solved the nomenclatural problem by designing a special indexing system. This was published in the year 1753 in a 2-volume work entitled "Species Plantarum."

The naming system of Linnaeus was not exactly unique, for tentative efforts along that line had been made by earlier writers. But his perfected

system was ultimately accepted because of its simplicity and consistency. For example, all the oaks were put into the genus *quercus*, and the different kinds of oak had "special" (species) designations consisting of one word. It seems a simple and logical system, now that we are used to it, for the name of a plant thus consists of two words, the first denoting the major group (genus) to which it belongs, the second telling which species of the genus it is. One wonders why it took so long to arrive at this simple binomial system of nomenclature. Perhaps it is because man is a conservative creature and sometimes clings to old customs and ways long after they have become cumbersome almost to the point of uselessness.

### Binomial System Inadequate

The cultivator of plants, however, often finds the binomial system inadequate. Linnæus recognized a few "varieties" in his "Species Plantarum," and plantmen of his day knew of even more variation in cultivated plants than he listed. Therefore, as horticulture became a recognized profession, plantmen began giving names to these cultivated variants. So long as horticulture was on a local basis and without large interchange of seeds and plants, there was little trouble. However, with the rise of large commercial nursery and seed establishments serving an international trade, the problems of the nomenclature increased. These were heightened by the rise of the great horticultural journals, which used names so varied in discussing cultivated plant materials that readers sometimes had difficulty recognizing what was under discussion.

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# Plants for Canada

By Fred C. Galle

One of the major botanical collections in North America is at the Montreal Botanical Garden, which was established 17 years ago and has built up a collection of plants suitable for the extremes of temperature found in the northern climates. Henry Teuscher, curator of the garden, was a speaker at the January 21 meeting of the Ohio Nurserymen's Association, held at Columbus, and told the nurserymen about some of his experiences with trees and shrubs in Canada.

The botanical garden of Montreal has much of interest to offer, Mr. Teuscher said, for it is located farther north than any other similar institution in America and affords a unique chance to extend general knowledge of plant hardiness.

## Beauty Bush Hardy

He cited as an illustration that the beauty bush, *Kolkwitzia amabilis*, the hardiness of which is sometimes questioned in the United States, is hardy not only at Montreal, but even 400 miles farther north, on the Gaspé peninsula. This, of course, is true only provided the shrub is planted in a well-drained, preferably gravelly soil, and one is willing to wait for the plant to become thoroughly established, which may take five to six years. Increased hardiness under proper soil conditions results not only from a greater extension and deeper penetration of the root system, but most of all from sturdier, less sappy growth which ripens out properly within the time limit of the season.

Plants which do succeed at Montreal under proper conditions of drainage include *Asimina triloba*, *Buddleia alternifolia*, *Cladrastis lutea*, *Corylopsis spicata*, *Cotinus coggygria*, *Daphne burkwoodii*, *Elsholtzia stauntonii*, *Gleditsia triacanthos*, *Gordonia alatamaha*, *Gymnocladus dioica*, *Halesia monticola*, *Halesia carolina*, *Koeleruteria paniculata*, *Liquidambar styraciflua*, *Magnolia acuminata*, *Neillia thyrsiflora*, *Prinsepia uniflora*, *Prunus subhirtella*, *Sophora japonica*, *Stephanandra tanakae*, *Styrax japonica*, *Tamarix pentandra* and *Viburnum fragrans*, to mention only a few which many might think would be tender in Canada.

With conifers, the beautiful *Chamaecyparis nootkatensis pendula*

succeeds extremely well in the north under proper soil conditions. So do *Pinus flexilis* and *P. ponderosa*, from the west coast, and *P. cembroides edulis*, the nut pine, as well as many others. Mr. Teuscher's proudest boast, however, was to have established that the famous dawn tree, *Metasequoia glyptostroboides*, is hardy at Montreal and probably even farther north. The dawn tree was discovered only six years ago in a little-frequented part of central China and the find created a great sensation, because until that time the plant had been known only from fossils and had been believed to be long extinct. The *metasequoia* is a handsome deciduous tree, having somewhat drooping branchlets and fresh green foliage. It is undoubtedly one of the fastest growing conifers known, an annual growth of three and one-half feet being common even during the first season after planting. *Metasequoia* is easy to propagate from cuttings of the preceding year's wood taken in February and inserted in a sand and peat moss mixture in a cool house (42 to 45 degrees Fahrenheit) with a bottom heat of approximately 50 degrees. Such cuttings root nearly 100 per cent by mid-May and will develop into well-shaped little trees approximately 20 inches tall ready for sale.

Another fast-growing deciduous conifer recommended was *Larix po-*

*lonica*, the Polish larch. It is more handsome than the common *L. decidua* because of the pendant habit of its branchlets and its long needles.

Other trees he said should be more readily available in northern nurseries are *Tilia petiolaris*, silver linden; *Tilia euchlora*, Crimean linden; *Corylus colurna*, Turkish hazel; *Fraxinus americana*, American ash, and *Cladrastis lutea*, American yellowwood.

The desirability of selecting outstanding fall foliage types of sugar and red maple was discussed. Contrary to common opinion, this is undoubtedly an inherent quality of certain trees, said Mr. Teuscher, and this has been recognized in Europe.

Among shrubs, Mr. Teuscher recommended *Sorbus koehneana*, a many-branched shrub with graceful, feathery foliage, and brilliant red color in fall with contrasting snowy white berries. The handsome, silver-blue fruited *Sambucus cerulea* is hardy and deserves to be better known and more frequently planted.

## Propagating Conifers

In propagating conifers, Mr. Teuscher told of his success in taking cuttings in the summer and placing them in a coldframe over the winter, with a gentle bottom heat from the end of March to early May; this gave superior results to those obtained from cuttings taken at the generally recommended time, from October to November. *Taxus* cuttings 10 inches long with a short heel of previous year's wood succeeded best when taken the first week in

[Continued on page 63.]

## California Group Presents Scholarship



James Wilson, Millbrae, Calif., right, vice-president of the California Association of Nurserymen, presents a check to Julian A. McPhee, president of California Polytechnic College, to be used for two \$100 scholarships in ornamental horticulture at the school sponsored by the association. One scholarship will operate on the central campus, at San Luis Obispo, the other at the college's southern Kellogg-Voorhis campus, near Pomona. Elmer Merz, center, executive secretary of the C. A. N., looks on.

## A "Living Fossil"

## Notes on Metasequoia

By Maunsell Van Rensselaer

Throughout the long and fascinating history of man's world-wide search for new and useful plants, perhaps no single discovery has aroused such universal interest as that of the dawn redwood, *Metasequoia glyptostroboides*. Known previously only in the fossil record, this remarkable deciduous redwood was thought by paleobotanists to have been extinct for some 20,000,000 years. One can well imagine, therefore, the excitement in botanical and horticultural circles caused by the chance discovery in 1944 of not one, but hundreds of these trees, in a vigorous, healthy condition in a remote part of Szechuan province in central China.

Studies of fossil stems, leaves and cones, some of which have been well-preserved, convince investigators that this species was once widely distributed over Asia and North America. Now it is apparently confined, in remnant colonies, to a small area some 300 square miles in extent. The story of the finding of this heretofore extinct species and its subsequent introduction in 1948 to gardens of North America and other parts of the world has been vividly reported during the past few years by Dr. Ralph W. Chaney, of the University of California; Dr. E. D. Merrill and Dr. Donald Wyman, of the Arnold Arboretum, and others.

## Seeds Arrived Here in 1948

When Dr. E. D. Merrill, former director of the Arnold Arboretum, first examined botanical specimens of *metasequoia* in 1946, he became interested in obtaining seeds and accordingly sent funds to China to finance an expedition for this purpose. The first seeds to reach the outside world arrived at the Arnold Arboretum in January, 1948. Shortly thereafter, Dr. Ralph W. Chaney, paleobotanist of the University of California, made a strenuous and hazardous journey into central China personally to examine living specimens of *metasequoia* in the few remaining stands. He returned with another supply of seeds. Since 1948, seeds and seedlings have been widely distributed by the Arnold Arboretum and by the Save-the-Redwoods

League of California. Wherever this species has flourished, it has proved to be a vigorous, rapid-growing tree, at least in its youth; reports of growth of three to four feet a year are common.

Of interest to horticulturists is the fact that the dawn redwood differs from its near relative, the well-known and widely cultivated California redwood, *Sequoia sempervirens*, in the following noteworthy aspects:

1. It is fully deciduous, while the latter holds its leaves for several years. As I write these notes at Saratoga, Calif., I can see from my window a native stand of *Sequoia sempervirens* growing in a wooded canyon at the base of the Santa Cruz mountains. These are fully clothed in deep green foliage, while the dawn redwoods in our test plot just outdoors are fully deciduous. Prior to falling, the leaves assume a striking bronzy hue.

2. The branches of the dawn redwood are ascending, as shown in the illustration, while those of the California redwood stand at right angles to the trunk or frequently are markedly deflexed.

3. The branches of *metasequoia* are symmetrically arranged in opposite pairs with each pair standing at right angles to the pair below.

4. The ovulate cones of the dawn redwood are borne on long naked stems, while the staminate catkins are said to resemble those of *taxodium*, another member of the redwood family.

5. In the wild, the California redwood is a much larger tree than the dawn redwood.

## Suited to Many Areas

*Metasequoia* has found the Pacific coast to its liking. The tallest specimen in North America, according to Dr. Chaney, is in the garden of Mr. and Mrs. James R. Brehm, at Pasadena, Calif., growing on a sunny, moist, well-drained hill slope facing southeast. When planted in March, 1949, it was a 15-inch seedling. On September 12, 1952, it was measured by Mr. Brehm and found to be 24 feet in height—an average seasonal growth of nearly six feet. When I examined the tree in May, 1952, I



A well-formed specimen of *Metasequoia glyptostroboides* growing at the Arnold Arboretum, Jamaica Plain, Mass. The seed was sown in July, 1948, and, when this tree was planted in this spot in the spring of 1951, it was at the height indicated by the young lady. During the ensuing growing season it grew 52 inches, and when this photograph was taken (September, 1951) the tree was more than eight and one-half feet tall.

found most of the growth to be upright, without normal lateral growth, so that it is much more slender than the average of its species, most of which are pyramidal in outline. Another California specimen, planted on the grounds of the post office at Palo Alto on Arbor day, in 1949, by the California Arborists Association, measured 17 feet, four inches on September 3, 1952. Before the removal of one of its trunks last winter, this was a double-trunked specimen; the remaining trunk has a circumference of 18 inches at the base.

According to reports received from Park Administrator W. H. Warren, of Victoria, B. C., Director Brian O. Mulligan of the University of Washington Arboretum, Seattle, Wash., and Curator Ernest E. Fischer of the Hoyt Arboretum, Portland, Ore., *metasequoia* appears to be perfectly hardy and is flourishing in the Pacific northwest although its growth is not so rapid as in California. This condition of slower growth will doubtless prove an advantage, with the probability of more shapely trees. Fine specimens, from four to nine feet tall, are growing at Victoria, Seattle and Portland. According to

[Continued on page 50]



# Effective Insect Control

By W. D. Whitcomb

Like almost everything else, improvements in pest control methods and materials are constantly being made. Some of these are good, some are bad and all are confusing.

In general, developments have been made in three types of materials—(1) the chlorinated hydrocarbons, (2) the organic phosphates and (3) the systemics. Chemically, the chlorinated hydrocarbons are benzene-ring compounds with which various chlorine compounds are combined. The discovery of DDT just before World War II stimulated interest in similar compounds and has resulted in the discovery and use of many related compounds, such as benzene hexachloride, Lindane, Chlordane, Heptachlor, Aldrin and Dieldrin. In general, this type of insecticide is effective against beetles and flies but has questionable value against caterpillars and worms.

The organic phosphates, such as TEPP and Parathion, are poisonous compounds to insects, spiders and man. They approach the requirements of the ideal all-purpose insecticide but have several weaknesses and disadvantages. Great care must be used in handling and applying them—although thousands of pounds of them have been used in recent years without harmful results. Recently, several related compounds safer for man to use have been developed, and improved formulations will be discovered.

## Systemic Insecticides

Systemic insecticides are those which are absorbed through the roots or leaves and kill or repel insects which feed on the treated plant. The most effective systemics at present are organic phosphates, which cannot be safely used on food crops but have considerable promise for pest control on ornamentals and trees. Much has to be learned about the length of time required for the insecticide to be absorbed and the duration of the protective action before these treatments can be generally recommended.

In planning an insect control program, one should be governed by the

From an address by W. D. Whitcomb, research professor of entomology, University of Massachusetts, at the January, 1953, meeting of the Massachusetts Nurserymen's Association, Boston.

economic need. The following questions should be answered: 1. Is it more profitable to pull and destroy any plants that become infested than to protect them from pest damage by applying sprays or dusts? 2. Is stock turnover fast enough so that destructive pests do not have time to become established? 3. Is the nursery located in an area where general pests, such as the Japanese beetle, tent caterpillar, fall webworm and spider mite, are not abundant and annual control of them is unnecessary? 4. Does the state nursery inspector issue a shipping certificate without costly clean-up work and annoying delays?

If the answer to any of these questions is "no," a pest control program is probably needed and there is a choice of two general plans.

1. Emergency treatments: By this method the nurseryman waits until a pest attacks the plants and then attempts to stop the damage. To do it

successfully, one must know the pests and the symptoms of their attack, make frequent careful inspections, have adequate equipment available for immediate use, know or find out quickly what to do for control and do it. These are emergencies—treat them as such.

2. Protective schedule: By this method three or four sprays are applied at predetermined dates during the season using a combination of pesticides designed to prevent the commoner pests from becoming established. The work must be done by efficient personnel who understand what they are doing and why, and the applications must be thorough. In seasons which favor pest development, additional applications of special materials to control particular pests may be necessary. In this schedule a dormant spray is optional and with ordinary conditions should be necessary only once in three or four years. Regular applications to both deciduous shrubs and evergreens are suggested about May 15, June 15 and July 15. A satisfactory formulation is 50 per cent DDT wet-

[Continued on page 74]

## Nursery Uses "Assembly Line" Methods



That the assembly line methods which keynote American manufacturing industry can be applied with equal effectiveness to the wholesale nursery business is demonstrated by Monrovia Nursery, Monrovia, Calif. Recently remodeled and reorganized for greater efficiency and faster service to customers, the nursery's packing department, a portion of which is shown in the photograph, operates with precision. Plants are transferred from growing pots into thin but tough wax paper pots, then individually wrapped for shock-free

travel and packed into sturdy yet lightweight cardboard cartons.

Monrovia Nursery's present methods of packing result from extensive study and research in materials, equipment and techniques. However, the nursery does not assume that it has achieved the perfect system even yet and, under the management of Martin Usrey, is continuously experimenting with new methods which may prove even more satisfactory in the prompt and accurate filling of orders and the safeguarding of plants for delivery.



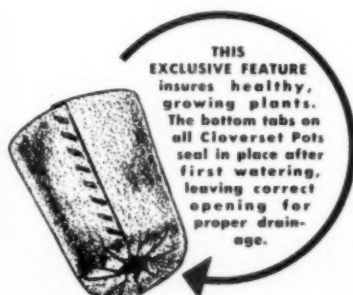
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MAGIC PROFIT-BUILDER FOR HUNDREDS OF MODERN NURSERIES!

• Designed by a practical nurseryman to make plant-handling easier and safer

• Proved better-sales-getters because growing plants make more attractive displays



NO OTHER POTS HAVE  
THIS PATENTED FEATURE

Cloverset pots were developed for use in our own retail nursery to meet our ideas on the best way of handling and selling potted plants. They proved so successful for us that soon friends were asking if they could have some too. From that small beginning the Cloverset pot has grown to national reputation, simply because it does a better job of containing the plant, attracting sales, and making it easier for customers to buy, carry home and successfully transplant the plants they buy. If you haven't used these modern pots, send for a sample set today. And, if you're already taking "pot luck" with us . . . .

**Remember: NOW'S THE TIME TO ORDER  
POTS FOR YOUR SPRING POTTING NEEDS**

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HOME NURSERY  
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ERNST, INC.  
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ERNST NURSERIES  
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HILLSDALE LANDSCAPE CO.  
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Indianapolis, Ind.

### KANSAS

WILLIS NURSERY CO.  
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### MICHIGAN

GROWERS EXCHANGE, INC.  
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(Consult your local distributor for prices,  
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SOME TERRITORIES OPEN — INQUIRIES INVITED

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FREE ILLUSTRATED WALL CHARTS to help potting-shed workers are available from Cloverset. Size 17x22 ins., they contain how-to-pot instructions, descriptions of all eight sizes and weights, and list of pots available for various stock. Ask for as many as you need.

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\_\_\_\_\_ Sample set of 8 Cloverset Pots @ 50c. (Limit one)

\_\_\_\_\_ Free illustrated wall chart.

\_\_\_\_\_ Free potting guide, "How to Sell Plants in Cloverset Pots for Profits."

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# Plant Notes Here and There

By C. W. Wood

There is a letter before me this morning asking for a report on two lewisias, *L. brachycalyx* and *L. leana*. Let us take the pleasant part of the task first and consider the prettiest and most satisfying of the genus, *L. brachycalyx*.

My edition of "Hortus" does not mention it at all, Gabrielson omits it from his "Western American Alpines," and I do not find it in my other reference works on western plants; so I cannot speak with authority on its home or status in the systematists' scheme, but I can say that it is distinct among, as well as the best of, the deciduous kinds. As I remember, it is locally distributed in the mountains or foothills of south California. In any event, it is not reliably hardy in northern Michigan, but probably would be in the inquirer's section of Kentucky.

The plant makes rosettes of lanceolate leaves to two inches in length, which are hidden under a profusion of large (to two inches across) white flowers, almost stemless, for a month or more in early spring. As we could only succeed with it in pots indoors, I cannot be positive about its outdoor culture, though it is probably safe to say that it would do well, perhaps best, in humus-filled, light soil in sun.

Although somewhat hardy (it is from the Siskiyou of southern Oregon and northern California) and fairly easy to grow in a scree soil containing an abundance of humus and light shade, *L. leana* never set me on fire as its betters, *L. howelli* and *L. tweedyi*, did. It makes a rosette of evergreen (hence subject to winter burning unless protected), pine needle leaves, from which spring 6 to 8-inch branching stems carrying small (one-half inch) flowers, pink to rosy purple in color, in late spring.

## **Campanula Rotarvatica**

Answering a Massachusetts reader, I should not expect *Campanula rotarvatica* to come true from seeds, though I cannot say positively from experience. This is the situation as I understand it—it is a hybrid of the indestructible *C. rotundifolia* and the somewhat erratic (or, certainly, delicate) *C. arvensis*. It is said that the unorthodox mingling of these two species has given a plant which combines the most desirable traits of both parents, including the hardiness to cold and amiable disposition of the

first, and the freedom of flowering and all-round charm of the other.

The semierect stems, to a length of about five inches, carry four or more (often twice that number, it is said) dark violet flowers, shaped midway between the bells of *rotundifolia* and the flat saucers of *arvensis*. It is said to like a well-drained limestone soil in full sun or light shade.

## **Aster Yunnanensis Napsbury**

They say that comparisons are odorous, but that is not necessarily the case in every instance. Thus if I say that the flower of *Aster yunnanensis* Napsbury, is larger than that of *A. thomsoni* Frikarti, it does not mean that the latter is without merit; even when I say that Napsbury is hardier, it does not mean that Frikarti will be abandoned. But I should not speak about hardiness, for I only speak from hearsay. Other

"hearsay" about the plant runs like this—it grows to a height of 30 inches, and it possesses large (about three inches wide), deep blue flowers, broad of petal and fragrant, and of long-lasting quality. If true, this indicates a splendid plant, both for the garden and for cutting. I can add from experience that *A. yunnanensis* was not reliably hardy here on two or three occasions about 20 years ago.

## **Aster Little Red Boy**

Speaking of asters reminds me that, if you have overlooked *Aster Little Red Boy*, you are probably missing one of the best-selling varieties. It seems to me that it has most of the appealing characteristics of the perfect hardy plant. This includes an appealing color, rose with a bronzy cast; prolific flowering through September, just as the fall season is opening, a compact growth

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If you are interested in Top-Quality Yews for your better landscape jobs, we can furnish some beautiful heavy **Taxus Capitata** in sizes 3½ to 4 ft. to 5½ to 6 ft. Heavy, full plants, several times transplanted. Call at the nursery and inspect this stock. You are always welcome.

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### A Very Scarce Item

3-yr., heavy, untransplanted seedlings.

		Per 100	Per 1000
2000	6 to 9 ins.	\$12.50	\$100.00
2000	9 to 12 ins.	15.00	125.00
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# PACKAGED ROSES

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Expertly grown, these 2-year-old, field-grown bushes are scientifically wrapped and waxed to retain full vigor. Colored label and planting instructions on each package. Plants are held under ideal storage conditions for shipment now or later. To keep fresh stock on your counter, order one or more collections to be shipped every week, or every month.

Available in collections of 100 bushes, 25 varieties or more included, in a wide range of colors. 75 per cent are Everblooming Hybrid Teas; 25 per cent are Climbers.

Colors assorted as follows: 35 per cent Red varieties, 15 per cent Pink varieties, 15 per cent White varieties, 20 per cent Yellow varieties, 15 per cent Two-tone varieties.

These collections have proved themselves time and time again! Grading is according to standards established by the American Association of Nurserymen. The low prices are the results of mass production and economic distribution and will enable you to meet, profitably, any legitimate competition.



## COLLECTION "A"

100 Assorted Roses  
No. 1 Grade  
**\$65.00** per collection

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100 Assorted Roses  
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# PACKAGED HOLLAND BULB COLLECTION

(Complete list of contents sent on request.)

Collection contains 80 packages — 10 each of 8 varieties — a total of 1670 bulbs!

**Suggested retail: \$1.00 per package.**

**YOUR COST: 33 1/3¢ per package — \$27.00 per collection.**



## GLADIOLUS BULBS

12 No. 1 Bulbs per Box

Colored picture and planting instructions on each box.

Colors available: **Red, Pink, White, Yellow, Lavender** or mixed. Minimum order is 20 boxes. Specify colors, or we will make up an assortment for you.

Prices:

**42c** each in lots of 20

**40c** each in lots of 40

**38c** each in lots of 100



## TUBEROUS-ROOTED BEGONIAS

Double, Camellia Type

Belgian-grown. Each package contains 4 different colors, and the 4 varieties are shown in color. Planting instructions on the back. A very attractive and very popular seller. Prices:

**50c** each in lots of 20

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Each package contains six 2 to 5-eye roots, the equivalent of 18 to 24 plants when divided.

Represented in each package are the best of the new colors in **Red, Orange, Pink and Yellow.**

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## DAHLIAS

Large-flowering Dahlias, assorted types and colors. Packed in an attractive colored carton. Each carton will contain six large tubers.

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Big, husky field-grown plants; will be big enough to sell this fall.

	Per 100	Per 1000
<i>Althaea</i> , pink, 12 to 18 ins.	\$15.00	\$100.00
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<i>Forsythia Intermedia Spectabilis</i> , 12 to 18 ins.	20.00	150.00
Honeysuckle, <i>Tatarica Rosea</i> , 12 to 18 ins.	20.00	150.00
Honeysuckle, <i>Tatarica Rubra</i> , 12 to 18 ins.	20.00	150.00
Honeysuckle, <i>Zabeli</i> , 12 to 18 ins.	20.00	150.00
Lilac, <i>Rothomagensis</i> , 12 to 18 ins.	25.00	200.00
Lilac, <i>Rothomagensis</i> , pink, 12 to 18 ins.	25.00	200.00
<i>Philadelphus Coronarius</i> , 12 to 18 ins.	20.00	150.00
<i>Philadelphus Virginalis</i> , 12 to 18 ins.	25.00	200.00
<i>Spiraea Billiardii</i> , 12 to 18 ins.	20.00	150.00
<i>Symphoricarpos Vulgaris</i> , 12 to 18 ins.	15.00	100.00
<i>Weigela Eva Rathke</i> , 2 years in beds.	15.00	125.00

## VINES

Bittersweet, American, 2-in. pots.	15.00	125.00
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<i>Juniperus Hetzi</i> , 2-in. pots	20.00	
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<i>Thuja Orientalis</i> , 3 to 6 ins.	3.50	30.00

## BROAD-LEAVED EVERGREENS

<i>Euonymus Fortunei Coloratus</i> , 2-in. pots.	20.00	150.00
<i>Euonymus Fortunei Minimus</i> , 3-in. pots.	30.00	250.00
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<i>Euonymus Patens</i> , 2 1/4-in. pots.	25.00	200.00
2-in. pots	20.00	150.00
Trans., R.C., from flats.	15.00	100.00
R.C., from sand.	10.00	75.00

## SHADE TREES

Ash, Green, 6 to 12 ins.	1.50	12.50
Elm, American, 6 to 12 ins.	2.00	15.00
Locust, Black, 6 to 12 ins.	1.50	10.00
Maple, soft or silver, 6 to 12 ins.	2.00	15.00
Oak, Pin, 4 to 6 ins.	3.00	25.00
Oak, Red, 4 to 6 ins.	4.00	35.00
Pecan, Native, 6 to 12 ins.	6.00	50.00
Persimmon, American, 6 to 12 ins.	3.00	25.00
<i>Prunus Besseyi</i> , 6 to 12 ins.	3.00	25.00
Redbud, 6 to 12 ins.	2.50	20.00
Walnut, Black, 12 to 18 ins.	3.50	30.00
Walnut, Black, 6 to 12 ins.	2.50	20.00

## BUTTERFLY BUSH

Transplanted, rooted cuttings from flats.

Charming, most nearly pink.	Red, as nearly red as any.
Dubonnet, reddish-purple.	White Cloud, clear white.
Floralart, orchid-pink.	

\$10.00 per 100; \$75.00 per 1000.

300 alike or assorted at 1000 rates.

# THE WILLIS NURSERY CO.

"Your Wholesale Nurserymen"

OTTAWA, KAN.

about 18 inches tall and the ease of culture which satisfies all michaelmas daisies.

An Indiana reader writes, "I read recently that *Rivina humilis* can be grown in the open in the north. Is that correct?"

This inquiry sent me scurrying to my notes, because I remembered trying it years ago in the garden, but could not recall final results. I found the following among my notes from 1942:

It had been several years since I had seen the rougeplant, *Rivina humilis*, when seeds arrived from a Texas correspondent. Years before we had it in the window garden and later in the greenhouse, but never thought of it as an outdoor plant. This time we tried it in the open where it did well until we forgot to mulch it. It was surprising, though, the amount of cold the plant could stand. On the basis of that experience, I would recommend it for trial far north of its range although I doubt that it would be permanent as far north as Indiana. It would not act like the evergreen pokeweed of southern Texas anywhere in the north, but it would make 2-foot growths, clothed in heart-shaped leaves, and bear clusters of small white flowers, followed by showy, bright red berries, the latter being the fortune of the plant.

## Acacia Angustissima

While looking for the note on the rougeplant, I came upon this one which was prompted by the flowering of a southwestern acacia. It reads as follows:

I sometimes wish I lived in the south so I could enjoy the acacia, and then I content myself by growing, or trying to grow, the hardier kinds. Among the latter that have given me pleasure is one received as *A. angustissima*. My reference says it is a shrub which reaches a height of three or four feet; here it grew about two feet tall, killing back to the ground in winter, and blooming from midsummer or late summer onward on the new growths, with pretty, pure white, acacia flowers. It would make an attractive garden plant, wherever hardy. Like all acacias that I know, it is easy to grow from seeds, blooming the second year here in Michigan. There is a wealth of good material among the acacia, most of it seldom seen, even in southern gardens.

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The most generally available species of omphalodes, and perhaps the best suited to garden conditions

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Growers and sellers of nursery stock often have occasion to condition large turf areas. Frequently this presents a problem—both in application and cost—particularly when the soil is clay. Sodding is often impractical—so is the application of topsoil. Also, either of these methods can be more expensive than conditioning the soil with Krilium.

One prominent nurseryman, who is treating an unusually large area, has this to say in connection with Krilium vs. topsoil:

"...As a matter of fact, in all our estimates for landscape work, where we have a clay soil, we are recommending to our clients that Krilium be used, and in many instances we have found it far more economical than replacing with topsoil."

The above direct quotation is so valuable to all nurserymen interested in landscaping that it is worth a second reading. And then—action! Because, time after time, Krilium has proved its economic value in all phases of landscaping and nursery operations where questions of sodding, topsoil or erosion are under consideration.

## FOLIUM... NEW PLANT FOOD

Folium is Monsanto's new leaf-feeding balanced plant-food concentrate. Easily and quickly soluble in water—forms a clear solution that can be applied by sprinkling or siphon spray. Will not "burn" delicate leaf areas... In 2-oz., 1-lb. and 5-lb. packages.



For large-area soil conditioning—Krilium is available in 10-lb., 25-lb. and 50-lb. full-strength packages... For smaller-area applications—Krilium is available in 1-lb. and 5-lb. home-garden mixture packages... MONSANTO CHEMICAL COMPANY, Merchandising Division, 1700 South Second Street, St. Louis 4, Missouri.

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	Per 100	Per 1000		Per 100	Per 1000
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2-yr., S., 2 to 4 ins...	\$ 3.00	\$15.00	2-yr., S., 2 to 5 ins...	\$ 7.00	\$ 35.00
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Grown from seeds of our own collection. Parent trees exceptionally healthy, straight stems, holding good green color.			<b>COLORADO BLUE SPRUCE</b>		
2-yr., S., 3 to 6 ins...	5.00	25.00	(From hand-picked seeds)		
2-yr., S., 4 to 8 ins...	7.00	35.00	2-yr., S., 2 to 4 ins...	5.00	25.00
3-yr., S., 5 to 10 ins...	9.00	45.00	2-yr., S., 3 to 6 ins...	7.00	35.00
<b>AUSTRIAN PINE</b>			3-yr., S., 5 to 10 ins...	12.00	60.00
2-yr., S., 3 to 7 ins...	7.00	35.00	<b>NORWAY SPRUCE</b>		
3-yr., S., 8 to 16 ins...	11.00	55.00	2-yr., S., 3 to 5 ins...	4.00	20.00
<b>AMERICAN RED PINE</b>			2-yr., S., 5 to 10 ins...	7.00	35.00
2-yr., S., 3 to 5 ins...	6.00	30.00	3-yr., S., 10 to 18 ins...	14.00	70.00
3-yr., S., 6 to 12 ins...	11.00	55.00	Fast-growing—note size		
<b>WHITE PINE</b>			5-yr., T., 8 to 12 ins...	20.00	100.00
2-yr., S., 2 to 6 ins...	4.00	20.00	Mostly grafting size		
3-yr., S., 5 to 10 ins...	7.00	35.00	<b>SERBIAN SPRUCE</b>		
<b>MUGHO PINE</b>			(Picea Omorika)		
2-yr., S., 2 to 3 ins...	5.00	25.00	3-yr., S., 7 to 12 ins...	17.00	85.00
3-yr., S., 4 to 7 ins...	10.00	50.00	<b>CANADIAN HEMLOCK</b>		
<b>BANKS PINE</b>			2-yr., S., 2 to 5 ins...	9.00	45.00
3-yr., S., 12 to 18 ins...	5.00	25.00	3-yr., S., 8 to 14 ins...	17.00	85.00
<b>DOUGLAS FIR</b>			<b>AMERICAN ARBORVITAE</b>		
2-yr., S., 4 to 8 ins...	6.00	30.00	2-yr., S., 2 to 5 ins...	5.00	25.00
3-yr., S., 6 to 12 ins...	10.00	50.00	4-yr., S., 6 to 12 ins...	10.00	50.00
<b>CONCOLOR FIR</b>			<b>CEDRUS ATLANTICA GLAUC</b>		
2-yr., S., 3 to 6 ins...	13.00	65.00	2-yr., S., 6 to 12 ins...	15.00	...
3-yr., S., 5 to 10 ins...	17.00	85.00	<b>JUNIPERUS VIRGINIANA</b>		
<b>FRASER FIR</b>			2-yr., S., 6 to 12 ins...	6.00	30.00
3-yr., S., 4 to 8 ins...	20.00	100.00	4-yr., S., 12 to 20 ins...	8.00	40.00
<b>BALSAM FIR</b>			<b>JAPANESE LARCH</b>		
3-yr., S., 3 to 6 ins...	7.00	35.00	2-yr., S., 8 to 16 ins...	5.00	25.00
<b>WHITE SPRUCE</b>			3-yr., S., 36 to 48 ins...	8.00	40.00
2-yr., S., 4 to 8 ins...	6.00	30.00	<b>NORWAY MAPLE</b>		
3-yr., S., 8 to 16 ins...	10.00	50.00	1-yr., S., 5 to 9 ins...	12.00	60.00
			2-yr., S., 10 to 24 ins...	20.00	100.00
			<b>WHITE DOGWOOD</b>		
			1-yr., S., 5 to 10 ins...	13.00	65.00
			<b>BOX ELDER (Acer Negundo)</b>		
			1-yr., S., 6 to 9 ins...	3.00	15.00

Write for complete Catalog.

All stock grown from select seeds.

### LATE SHIPMENTS

Dormant stock can be shipped from our new refrigerated storage.

Box 80

**MUSSER FORESTS, Inc.** INDIANA, PENNA.

in this country, is blue-eyed Mary, *Omphalodes verna*. It is encouraging to one who has long admired this plant to note that it appears in more and more American nurseries as the years pass—encouraging not only because it shows that we are coming to an appreciation of the beauty of this unobtrusive navelwort, but also because it leads one to hope that others of the genus may become more generally available as time goes on. This one, blue-eyed Mary, is easily managed in the northern Michigan climate, needing only a leafy soil in part shade and some attention from the hose in dry weather. It is also hardy, standing our winters easily. It is somewhat stoloniferous, spreading into broad patches and lighting up the spring scene with sky-blue flowers on 6 to 8-inch stems.

Showier, because of larger flowers which are more open at the same time, is *O. cappadocica* (or *O. cornifolia*). It is said to thrive under the same conditions recommended for *O. verna*, but it never did so in our trials, needing more summer moisture than this climate usually affords, and more than a busy gardener can easily supply. Even so, it is not too difficult to grow if one has time to supply its moisture needs, and it is certainly rewarding. The flowers are large, clear blue, on 6 to 8-inch stems, blooming at about the same season as *verna*, though the blooming period was slightly shorter here.

Another easily grown navelwort is the Portuguese, *O. lusitanica*, which we of the nursery trade have long called *O. nitida*. Those who grow it well (it is not hardy in my climate) say it is easy under the conditions suggested for the two preceding species. There seems to be some confusion in gardens regarding this species for I have had at least three distinct plants (one actually a forget-me-not) under the name, and I have heard the same complaint elsewhere. There is little need, however, to confuse it with others, because it is entirely distinct in having narrow, oblong, lanceolate leaves, glabrous above and pubescent beneath, pale green in color. They are gathered into compact tufts instead of showing the creeping character of the other species. The sky-blue flowers come in racemes on 10-inch stems much later than the other two. Where hardy, it would be a splendid plant for a moist spot in the shade.

Gilia

Because all gilies known in gardens are short-lived, most of them being annuals, it is not easy to interest busy moderns in them. But I notice



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that it is not at all difficult to attract the attention of the most indifferent with well-grown plants of *Gilia aggregata* and *G. rubra* (*G. coronopifolia*). Both are described by some horticulturists as being tender to cold, but that must refer to conditions not met in northern Michigan, for both are hardy here in light soil, and the latter, at least, has escaped cultivation and maintains itself naturally in some sections. It might be, though, that material from the southern parts of their ranges, southern Florida and the warm southwest, might be tender.

*Gilia aggregata* is a showy plant when it decorates its slender stems a foot high or taller with a myriad of scarlet trumpets in summer. *G. rubra* is more stately, a height of six feet being mentioned by some authors, though it seldom exceeded half that height in our light soil. It, too, is floriferous, each graceful stem bearing numberless trumpets of a pleasing orange red at their summits. Incidentally, a grower can induce this plant to bloom the first year from seeds by sowing them early and growing the plants without check until late autumn, when they will make a grand show in the garden. Both species are easy to grow in any sunny, well-drained situation.

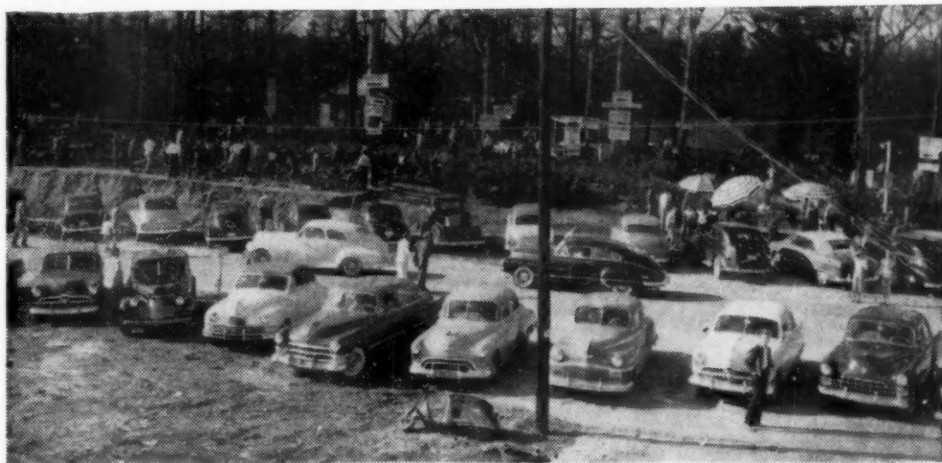
## Fritillaria Recurva

I wish I could say something encouraging to the Alabama reader who has asked about *Fritillaria recurva*'s culture. I may have been unfortunate in obtaining recalcitrant stock the few times that I have had it, but nothing in the experiences we have had with it so far tells me that the beauty will ever be a permanent fixture in our eastern climate, and I sometimes wonder if it is a long-lived plant even in its native California.

It is a woodland plant, say persons who know it in the wild, delighting in a leafy, well-drained soil. There it should send up leafy stems to a height of two feet or more, with leaves in whorls, terminating in a graceful raceme of brilliant red, strongly recurved bells. Unfortunately, it seldom does that more than once in our climate, and then it fades from the picture.

Another fritillaria inquired about, *F. lanceolata*, the riceroot lily, or mission bells, always behaved in the same way here, leaving us after the first flowering, though it could be kept going, no doubt, by means of its bulbets. It is evidently a highly variable species, for we have had it running all the way from 18 inches to three feet in height and varying

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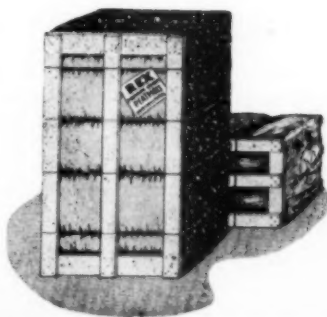
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Either readers are advancing too far ahead of me or I am losing my grip on things in general. It could not possibly be because I am growing old. Anyway, here is another question that I cannot answer satisfactorily, because I am not sure that I ever had the plant that botanists call "Erigeron pinnatisectus." In the 1930's, we planted a packet of seeds received from a western collector under label of *E. compositus* which produced plants with the characteristics of *E. pinnatisectus*, including pale violet to whitish daisies on 2 to 3-inch stems over tufts of gray, deeply cut leaves.

If that is the plant our correspondent asks about, it is a splendid thing, blooming profusely in June and often again in autumn, making a pleasing effect in a sunny, well-drained spot. For comfort to the plants in the east, however, these alpine fleabanes are better satisfied when given a little shade during the hottest part of the day. They are scarcely suited to general cultivation in our lowland gardens because, with the best of care, not many are long-lived, and they do need special care, requiring a meager soil (what the experts call a scree) and attention to their moisture needs. They come readily from seeds, many of them blooming the first fall from an early spring sowing.

### "PLANT AMERICA" CAMPAIGN

A copy of a pamphlet entitled "Plant Ohio Today . . . For Tomorrow" has been mailed by the American Association of Nurserymen to the governor of each state, the extension service in each state, federated garden clubs in each state and many other farm and garden organizations, according to a recent announcement by the association.

This extensive mailing is part of a campaign to publicize the Ohio program, which was an outgrowth of the association's own "Plant America" program, and to stimulate similar extensive tree and shrub-planting efforts in other states.

Responses from governors who have received pamphlets indicate interest in the constructive program, and the association recommends follow-up contact with the governors by state associations and other state and local groups.

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# This Business of Ours

*Reflections on the Progress and Problems of Nurserymen*

*By E. Sam Hemming*

## FALSE IDEAS IN LANDSCAPE ART

The very nature of landscape art makes it virtually impossible for us to be plagued by schools of cubism, impressionism and surrealism. Nevertheless, there are people afflicted with strange affectations who would distort the art of landscaping just to be different. This phenomenon takes a number of forms; one of the most obvious is a prejudice against certain classes of plants. This prejudice is found in both the amateur and professional designers and arises from an overcompensation for errors made by others in the past.

Back in the twenties, arborvitae and retinosporas, in their juvenile forms, were much overplanted and often badly planted; when they grew in great profusion, the reaction became extreme and absurd. When I hear anyone say, "I would not plant an arborvitae under any circumstance," I am positive that his knowledge of the art is superficial. A forest of giant arborvitae can be beautiful, and I know of a picturesque old plant in the center of an old box garden that is undeniably beautiful. Retinosporas and their relatives are much maligned by the uninformed. The same person that would not think of planting one would cross the continent to see and photograph the famed Monterey cypress or rave about a 200-year-old dwarf Japanese tree, which is so often a Hinoki cypress. A close relative, the Italian cypress, used in the old Roman gardens, makes a magnificent feature and accent plant.

Sometimes the prejudice takes the form of an aversion to what are called the common shrubs; Spiraea vanhouttei, forsythia, weigela and common snowball are often objects of contempt. As I have remarked before, these are common because they are easy to propagate, not because they lack beauty. Spiraea vanhouttei is really one of the most gracefully beautiful plants known and, if it were rare, would be as sought after as an orchid. The same type of aversion to common plants is in evidence in the avoidance of certain summer bedding plants such as cannas and scarlet sage. The old round bed of cannas may be passé, yet plants of that character are often the only subjects suitable to be used

in some park situations. Akin to the circular bed of cannas is the iron deer, etc., so popular some 50 years ago. Oddly enough, the memory of these absurd devices is so dim that they are returning to popularity.

Another strange prejudice takes the form of laying too much emphasis on dwarf plants. It is easy to cite many instances where a tree 30 feet high is considered too high for the modern-style 1-story house, and yet an architect will go to great trouble to locate a house to advantage near a 90-foot giant. I myself have a prejudice against the dwarf, but it is not against dwarfs as such, but rather that I favor a wider use of a greater number of plants, and this development could come from better knowledge of plants in all their life stages—youth, maturity and old age.

One class of plant enthusiasts leans toward the mass planting of what I can best describe as insipid plants. Members of this type are extremely soft in character and often attractive, but rarely beautiful. Nature, which is our great teacher, does not spare the use of plants of striking and contrasting beauty; why should we?

I have a minor quarrel with landscape architects who claim they must use structural features in place of plant features. In reality, they are at heart building architects and not landscape architects, and I have no criticism of the beautiful structures they create, but rather of their lack of full knowledge of plants and the tremendously diverse things you can do with the vast numbers of plants that are grown.

The prejudice against certain colors or color combinations is not so serious an affectation, but there is really no foundation for this reaction unless a person has an actual psychic allergy to the colors. Magenta, orange and purple are hard colors to use and are best used with

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<b>CYDONIA JAPONICA</b>		
600 12 to 18 ins.	25.00	220.00
3500 18 to 24 ins.	33.00	300.00
2700 2 to 3 ft.	45.00	400.00
1100 3 to 4 ft.	55.00	500.00
<b>CYDONIA JAPONICA RUBRA</b>		
1800 12 to 18 ins.	30.00	270.00
3100 18 to 24 ins.	40.00	350.00
<b>FORSYTHIA SPRING GLORY</b>		
1500 3 to 4 ft.	65.00	600.00
<b>HYDRANGEA A. G.</b>		
7500 12 to 18 ins.	28.00	250.00
1700 18 to 24 ins.	40.00	350.00
<b>HYDRANGEA P. G.</b>		
4200 12 to 18 ins.	28.00	250.00
5200 18 to 24 ins.	40.00	350.00
4800 2 to 3 ft.	50.00	450.00
<b>BEAUTY BUSH</b>		
900 2 to 3 ft.	60.00	550.00
<b>SPIRAEA ARGUTA</b>		
1850 12 to 18 ins.	28.00	250.00
2500 18 to 24 ins.	40.00	350.00
600 2 to 3 ft.	50.00	450.00
<b>SPIRAEA BILLIARDI</b>		
12 to 18 ins.	25.00	220.00
18 to 24 ins.	30.00	270.00
<b>SPIRAEA BILLIARDI WHITE</b>		
360 18 to 24 ins.	35.00	.....
<b>SPIRAEA REEVESIANA FLORE-PLENO</b>		
50 12 to 18 ins.	30.00	.....
270 18 to 24 ins.	45.00	.....
290 2 to 2 1/2 ft.	55.00	.....
<b>WEIGELA EVA RATHKE</b>		
1900 12 to 18 ins.	32.00	280.00
1100 18 to 24 ins.	50.00	450.00
2300 2 to 3 ft.	60.00	550.00
1200 3 to 4 ft.	70.00	.....
<b>ROSE CL. FLORIBUNDA BABY CHATEAU</b>		
500 No. 1	65.00	600.00
340 No. 1 1/2	55.00	500.00
<b>ROSE CRIMSON RAMBLER</b>		
2300 No. 1	40.00	350.00
2500 No. 1 1/2	30.00	250.00
4800 No. 2	20.00	180.00
<b>ROSE DOROTHY PERKINS</b>		
2600 No. 1 1/2	25.00	220.00
1260 No. 2	18.00	160.00
<b>ROSE EXCELSA (grown from cuttings)</b>		
540 No. 1	35.00	300.00
2800 No. 1 1/2	25.00	220.00
4250 No. 2	18.00	160.00
<b>ROSE EXCELSA PILLAR (grown from cuttings)</b>		
3240 No. 1	35.00	300.00
3880 No. 1 1/2	25.00	220.00
6520 No. 2	18.00	160.00
<b>ROSE GARDENIA</b>		
1700 No. 1	50.00	450.00
3570 No. 1 1/2	40.00	350.00
4500 No. 2	25.00	220.00
<b>ROSE PRIMROSE</b>		
1000 No. 1	50.00	450.00
2500 No. 1 1/2	40.00	350.00
3500 No. 2	25.00	220.00

For quantity lots, ask for special quotation.

Phone Shenandoah 406 or 407

complementary white, or alone. I also respect gardeners' use of single colors, as in a white garden or a blue garden, yet, in turn, I do not respect their thought that all red-flowering plants, for instance, should be done away with.

So those of us who know, like and understand plants best in their many aspects should do our best to keep these prejudices in proportion.

### PARCEL-POST CHANGES

Postmaster General Summerfield has recommended that his authorization to impose surcharges on parcel-post mail too large to be carried in mail sacks, which was renewed when the new administration took office, be cancelled. A number of trade associations, including the American Association of Nurserymen, had been urging a postponement of the effective date of the proposed 20-cent surcharge, but the question has now been settled by the postmaster general's action.

An amended petition for increases in parcel-post rates was submitted by the postmaster general concurrently with his request to cancel the surcharge authorizations. The amendment provides for an additional 1 to 2-cent charge per parcel over the increases previously requested. The Post Office Department estimates that the increases would raise approximately \$10,000,000 additional revenue each year, making the total increased annual revenue which would result from the petition approximately \$140,000,000. Hearings on the petition were to begin April 14.

A bill affecting the parcel-post size limitations has been introduced in the House of Representatives by Congressman Broyhill (R., Va.) and is receiving the support of many trade organizations. The measure proposes to re-establish the old size and weight limitations on parcel post for all parcels, namely 100 inches maximum in length and girth combined and over eight ounces but not exceeding 70 pounds in weight.

A RESEARCH grant of \$10,000 has been received by the agricultural experiment station, University of Rhode Island, Kingston, for further work in lawn and turf culture, according to Director Mason H. Campbell. The grant, awarded by O. M. Scott & Sons Co., Marysville, O., will allow an expanded program of research in turf culture, with the possibility of new research projects in the fields of lawn establishment and control of weeds and insects.



ANDY AIRWRAP SAYS ...

# ONLY NOW THE AIRWRAP STORY CAN BE TOLD!

AMAZING AIRWRAP ...

AIRWRAP is a patented plastic material, gas permeable, but moisture retentive, which has been designed fundamentally for use in the field of plant propagation. Essentially, the special plastic is coated on one side with a water soluble material containing plant foods, hormones, insecticides and fungicides which are used by the plant in its initial developmental processes.

Extensive research on AIRWRAP has been conducted in many of the leading colleges and universities throughout the country. Carefully analyzed results of this work have been compiled and are appearing in many of the trade publications. More complete data on these results is available on request.

This page is the first of a series of scheduled advertisements to acquaint the growing industry with AIRWRAP.

... truly, AIRWRAP is amazing ...

## FACTS ABOUT AIRWRAP

The use of AIRWRAP film has been expanded in the last few years to include the culture and propagation of most horticultural plants. AIRWRAP is particularly adapted to the rooting of herbaceous cuttings and woody plants. Rooting of cuttings may be done at any time of the year, and wherever ample humidity is present. There is almost no limit of variety of plants which may be successfully propagated with AIRWRAP.

True-to-form plants are the absolute rule when AIRWRAP is used. Both herbaceous cuttings and woody plants will root well in moist sphagnum moss while enclosed in individual plastic AIRWRAPS without additional care. The use of plastic in the root forming process of plant propagation is restricted by U. S. Patents to AIRWRAP. Infringement will be vigorously prosecuted.



Terms—2%, 10 days.  
F.O.B. Minneapolis

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DISTRIBUTORS FOR

**AGRI-PLAST PRODUCTS CO.**  
SARASOTA, FLORIDA



## AIRWRAP HAS A DOUBLE DUTY

The gas permeable, but moisture retentive material was conceived, perfected and patented by Agriplast Products Co., Sarasota, Florida, and has two primary purposes in the field of plant propagation. First, it accomplishes the air layering and rooting of woody plants, and second, the successful rooting of herbaceous cuttings with an extremely low percentage of mortality and disease.

## AIRWRAP PERFORMS VARIOUS OTHER DUTIES

AIRWRAP plastic material, because of the properties present, also proves to be one of the finest materials known for the wrapping of plant material for storage or shipment.

## THE ROOTING OF WOODY PLANTS

Air layering and rooting woody plants is made mechanically simple and practical with AIRWRAP. The method basically consists of making a branch of a tree, vine or shrub produce roots while attached to the parent tree. By girdling to remove the bark and cambium layer from the limb, packing the wound with moist sphagnum moss, and tying completely with AIRWRAP, the job is practically done. After three to eight weeks on the average, rooting will be complete. Cut the limb from the parent plant, remove the plastic and thus—a new plant has been produced, substantial in size.

## THE ROOTING OF CUTTINGS

Herbaceous cuttings will root well in moist sphagnum moss while enclosed in individual plastic AIRWRAPS. Singly, the cutting is trimmed in the usual manner and placed near the bottom of the moss. The sides of the coated AIRWRAP are lifted and a rubber band is tied around the top of the bag. Multiple cuttings are placed side by side on a strip of AIRWRAP with the leafy portions protruding. Moist sphagnum surrounds the stems and the wrapper is rolled up gently into a tight roll and rubber bands are placed over the package. With light, 70 degrees temperature and high humidity, the cuttings will root in several days. Price lists of treated and untreated AIRWRAP are available on request.



## COVER ILLUSTRATION

# INSECTICIDES & FUNGICIDES

**Last longer . . .  
Need fewer applications**



**WHEN  
YOU ADD  
WILT-PRUF  
TO PESTICIDAL SOLUTIONS**

## SAVE VALUABLE PLANT MATERIAL!

Your nursery stock gets more effective protection against insect and fungus damage when you add WILT-PRUF to pesticide spray solutions. *WILT-PRUF* prolongs the adherence of pesticides to plant surfaces, providing longer lasting protection than was usually possible in the past!

## SAVE EXPENSIVE PESTICIDES!

You don't have to re-spray after every rain when you add WILT-PRUF to your pesticidal solutions. Because WILT-PRUF prolongs their contact with plant surfaces, you require less pesticidal material per season — substantially reducing the cost of plant protection!

## SAVE LABOR COSTS!

Fewer applications of insecticides and fungicides, mean fewer man-hours devoted to spraying nursery stock. Since labor is the nurseryman's greatest item of overhead, WILT-PRUF helps to reduce your operating expenses!

WILT-PRUF comes to you in concentrated form—in 1, 5 and 52-gallon containers. 1 pint of WILT-PRUF, added to 100 gallons of pesticide mixture, will provide longer-lasting, less expensive plant protection!

WILT-PRUF protects valuable plant material in many other ways.

Get all the details now. Address Dept. 1, c/o your nearest WILT-PRUF distributor.

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P.O. Box 798  
Oklahoma City, Okla.



**Nursery Specialty Products, inc.**

c/o ROSEDALE NURSERIES, EASTVIEW, NEW YORK

## Cedrus Libani

*Cedrus libani* is a beautiful pyramidal tree popular in the south, while not reliably hardy in the northeast; there are hardy strains, such as the strain introduced by the Arnold Arboretum, growing in the New England states.

The name *cedrus* is from the Greek word, "hedros," meaning resinous trees. *Cedrus libani* (cedar of Lebanon) is a native of Asia Minor and reference is made to it in the Bible.

The tree is narrow and pyramidal while young, with stiff horizontal branches. With age, the tree becomes more open and branches become slightly pendulous. The main terminal shoot is upright and only slightly drooping, and the branchlets are glabrous. *Cedrus deodara* has pendulous branches and is densely pubescent. *Cedrus atlantica* has a stiff branching habit similar to *Cedrus libani*, but the needles are shorter and the branchlets are pubescent.

The needles of *Cedrus libani*, one to one and one-fourth inches long, are borne singly and alternately on young shoots, but are clustered on spurs on older branches, similar to those of larch. The needles are dark green in color, or glaucous on some clonal forms.

The cones of *cedrus* are borne on the upper sides of the branches and are approximately four inches long and two inches wide on the species *libani*.

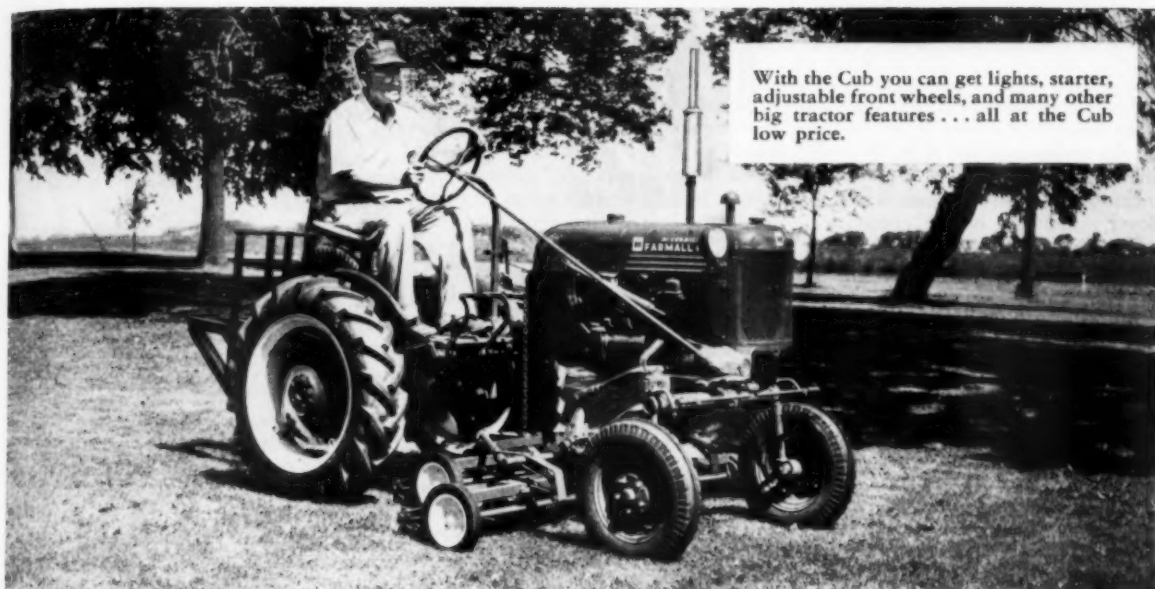
*Cedrus libani* is a fine lawn specimen tree when given sufficient room and planted in good, well-drained soil. There are several clonal forms available in the trade, differing in foliage color or general habit of growth. Blue cedar of Lebanon (*glauca*) has blue-green foliage; dwarf cedar of Lebanon (*nana*) is a dwarf compact form, and pendant cedar of Lebanon (*pendula*) has drooping branches.

Propagation is generally by seeds and the clonal forms are usually grafted on seedlings of the species.

F. C. Galle

HUBERT LOTT has undertaken the operation of the Lott Nursery, Three Rivers, Mich., on a full-time basis. Since 1949 he was running the nursery as a hobby in addition to his job with a local paper manufacturing firm.

SMITH'S NURSERY was opened recently by Gordon Smith, at Seattle, Wash.



## The most economical full-featured tractor you can buy... the Farmall® CUB



The Cub with trailer attached to its swinging drawbar hauls loads up to 2,500 lbs. . . makes quick work of all materials moving jobs.



The Farmall Cub is ideal for cultivating flowers and nursery stock. Three forward speeds controlled by a sensitive throttle give you the right speed for every job.

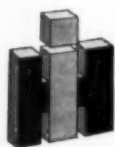
You'll enjoy, in the Cub, features found only on tractors selling for up to \$1,000 more. See how many more jobs you can do with a belt pulley and power take-off. See how much easier and faster all jobs go with finger-tip hydraulic Touch-Control of equipment, a powerful 4-cylinder engine, three forward speeds ranging from 2 to 6 1/8 miles per hour, a reverse gear, and an adjustable, built-in seat.

See how the Cub operates on only 2 to 3 quarts of fuel an hour. See how it cuts labor costs . . . for example, a Cub and one man can mow as much as five men with 18-inch hand power mowers.

**Year 'round usefulness**—A full line of equipment is available so you can keep the Cub busy the year 'round plowing, planting, cultivating, spraying, grading, hauling, dusting, and doing dozens of other jobs at labor-saving speed.

NOW is the time to prove it to yourself. Call your local IH dealer or IH District Office, for a free demonstration. See why the Cub leads all other tractors sold by 2 to 1 in the 8 to 15 hp. class. If you live in or near Chicago, call C. A. Mertz, ANdover 3-4200; in New York call H. F. Burton, MURrayhill 6-3438.

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Please send me information on how the Farmall Cub can help me stretch operating dollars on dozens of jobs.

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## Boyer Addresses Plant Board

Recommendations of the National Plant Board's quarantine committee for the revision of the plant quarantine act of 1912 and federal quarantine No. 37 were outlined by C. A. Boyer, chairman of the committee, before a meeting of the Central plant board at St. Louis, Mo., March 17 and 18.

Mr. Boyer, who has been the central board's president for the past two years, was re-elected for his third successive term. He is also chief of the bureau of plant industry, Michigan state department of agriculture. The new secretary-treasurer is C. J. Walstrom, chief of the Nebraska bureau of plant industry, and T. Aamodt, Minnesota state entomologist, and H. M. Harris, Iowa state entomologist, are to serve as the central board's representatives to the national board.

### Protect American Horticulture

Mr. Boyer said that quarantine officials should set as their goal a more adequate program of protection for American horticulture, that it is time to take measures to end the drain on the public for control programs after insects and diseases have already become established. Foreign countries, he said, too often take the view that America should weaken its quarantine restrictions and at the same time insist that their own regulations should remain untouched. "The idea of free trade between nations has been tried for centuries and always with the same disastrous results of unemployment of our own American workers," he said. A quarantine should not, however, assume the function of an economic tariff, he continued.

Mr. Boyer presented an 8-point program for the improvement of the American quarantine system. These recommendations are as follows:

1. Better trained personnel. An inspector in regulatory work should be trained for at least one year before being allowed to operate independently. A new employee should be required to work with senior inspectors during this training period. Inspectors on regulatory staffs should have diversified horticultural backgrounds. Entomologists, pathologists, foresters, etc., are valuable persons to include in an inspection staff.

2. A more rigid enforcement of quarantine legislation.

3. A better inspection service, with the elimination of "spot" checks and

inspections. Nothing less than a thorough inspection service is adequate to detect insects and diseases.

4. Better public relations. The public should be told what is going on in the quarantine program.

5. The plant board should try to establish closer contact with the various branches of the horticultural industry so as to obtain their support and guidance.

6. Close cooperation should be maintained with federal and state agencies.

7. Persons engaged in regulatory work must carry out their obligations strictly, without appeasing the interests of any group.

8. Every member of the plant board should have the fortitude to stand up for his convictions.

The recommendations of the quarantine committee were accepted unanimously by the central plant board.

Reports were also presented by Dr. Harris, who spoke on principles

of plant quarantine; Dr. T. W. Bretz, who addressed the group on the oak wilt situation, presenting a film to support his dissertation; Dr. Joseph F. Spears, who told the plant board about the spread of golden nematode, and Dr. Roger C. Smith, whose topic concerned the board's need for a publication.

The inspector's manual recently completed by the central board was discussed at some length. Following this, a general discussion was conducted on the topic "The Physical Condition of Nursery Stock Offered to the Public."

The afternoon of March 18 was reserved for an executive session of the central board, at which were also present members of the United States Department of Agriculture; Dr. Richard P. White, executive secretary of the American Association of Nurserymen; Paul Stark, Stark Bros. Nurseries & Orchards Co., Louisiana, Mo., and others.

THE Westbrook Landscaping Co., a new nursery and tree-servicing store at Covington, Ky., was opened recently by Harry Martineau.

LANDSCAPE-SIZE SHRUBS				LINING-OUT STOCK			
<i>Clethra alnifolia</i>	Per 10	Per 100		<i>Clethra alnifolia</i>	Per 100	Per 1000	
2 to 3 ft.	\$ 6.00	\$ 50.00		6 to 18 ins.	\$ 7.00	\$ 60.00	
3 to 4 ft.	8.00	70.00		<i>Hex verticillata</i>			
<i>Hex verticillata</i>				1 to 2 ft.	7.00	60.00	
2 to 3 ft.	6.00	50.00		<i>Syringa vulgaris</i>			
3 to 4 ft.	7.00	60.00		1 to 2 ft.	7.00	60.00	
<i>Viburnum cassinoides</i>				<i>Viburnum acerifolium</i>			
2 to 3 ft.	5.00	40.00		6 to 18 ins.	8.00	70.00	
3 to 4 ft.	6.00	50.00		<i>Viburnum cassinoides</i>			
<i>Viburnum dentatum</i>				1 to 2 ft.	8.00	70.00	
2 to 3 ft.	4.50	35.00		<i>Viburnum dentatum</i>			
3 to 4 ft.	6.00	50.00		1 to 2 ft.	8.00	70.00	
CLUMP BIRCH				EVERGREEN TRANSPLANTS			
<i>Paper Birch</i>				<i>Abies balsamea</i>			
6 to 8 ft.				4 to 8 ins., trans., 2-2	12.00	100.00	
3 stems and up.	40.00			<i>Thuja occidentalis</i>			
<i>Gray Birch</i>				18 to 24 ins.,			
4 to 6 ft., 3 to 6 stems	20.00	150.00		trans., 2-3	40.00		
6 to 8 ft., 3 to 6 stems	35.00	250.00		<i>Tsuga canadensis</i>			
PAPER BIRCH				4 to 8 ins., trans., 2-1	15.00	120.00	
<i>Betula papyrifera</i>				EVERGREEN SEEDLINGS			
2 to 3 ft.	\$ 8.00	\$ 70.00		Collected			
3 to 4 ft.	25.00	200.00		<i>Tsuga canadensis</i>			
4 to 6 ft.	40.00	300.00		4 to 8 ins.	4.00	20.00	
6 to 8 ft.	100.00			8 to 12 ins.	6.00	50.00	

All stock is first-quality collected material except as otherwise noted. Send for complete list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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**Trees & Shrubs**

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P. O. Huntington Station, N. Y.

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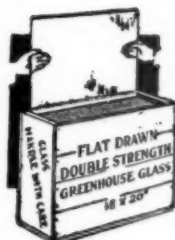


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Two-piece Redwood Hotbed Sash Rafter, 2½ inches by 2¾ inches. Grooved upper side to carry off leakage between sash. Has square ends. Each \$1.00  
6 feet long.....  
4 feet long..... .75



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8x10 SS box 90 lights.....	\$6.50
10x12 SS box 60 lights.....	6.50
10x12 DS box 60 lights.....	7.50
10x14 SS box 51 lights.....	6.50
10x14 DS box 51 lights.....	7.50
14x20 DS box 26 lights.....	7.50
16x18 DS box 26 lights.....	7.50
16x20 DS box 23 lights.....	7.50
16x24 DS box 19 lights.....	7.50
18x20 DS box 20 lights.....	7.50
20x20 DS box 18 lights.....	7.50



42c EACH

#### CYPRESS SEED FLATS

Size 16 x 16 x 3 inside measure. Shipped knocked down and bundled, 10 flats to a bundle. Sides and bottom ¾ in. thick; ends ½ in. thick. These flats made of genuine Dense Virgin Cypress, the kind that lasts and lasts.

#### BENCH LUMBER

Heart Redwood or Pecky Cypress. Long-lasting, for benches. Full 1 in. thick, \$19.00 per 100 sq. ft. 2x4 for posts, braces, 12c lin. ft.

# HOTBED SASH \$5.50 EACH

The kind that lasts and lasts. Made of strictly No. 1 quality Redwood. Size 3 x 6 ft., arranged for 3 rows of 10-in. glass. Extra-heavy center bars to prevent sagging. This sash has a solid brass crossbar, and there is no better.

Size	Not glazed	Glazed D.S. Glass
3x6-ft.....	\$5.50 each	\$9.30 each
3x4-ft.....	3.30 each	6.00 each
2x4-ft.....	2.50 each	4.50 each

#### Heavy-Duty Glazing Gun



12-in. barrel....\$4.95  
14-in. barrel.... 5.95  
With 3 nozzles

This is a three-way gun—for application bulk or with nozzle or commercial-type cartridges; has better balance, quicker pressure release, lighter weight, pistol grip trigger action and, as a result of improved washer construction, it has better suction and longer wear. It is the only gun you will use after you try it. Guaranteed.

#### GREENHOUSE WHITE PAINT

That good prewar grade.  
Gallon cans, each.....\$4.40  
5-gal. drum, per gal..... 4.30  
Immediate shipment.

#### GLAZING COMPOUND



Our glazing compound will give you the longest service and satisfaction. Composed of adhesive, weatherproof oils, gums and asbestos fiber. Easily applied with glazing or caulking gun. Light gray or slate gray. Economical—Durable—Very Elastic.

	Gum Grade	Knife Grade
1-gal. can .....	\$3.55 gal.	\$3.65 gal.
5-gal. drums .....	3.45 gal.	3.55 gal.
30-gal. drums .....	3.00 gal.	3.10 gal.

#### ALUMINUM PAINT

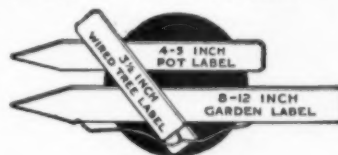


Once again we can furnish that fine aluminum paint that was off the market during the war. The quality has no equal. Highly water and weather proof—retains its elasticity for years and adheres readily to any surface. 30-gal. drums, \$3.60 gal.; 5-gal. kegs, \$3.70 gal.; 1-gal. cans, \$3.80 gal.

#### Evermark Pencils



For writing on all plant labels. Will not rub off, will not wash off. This is the original **Evermark**—endorsed by leading growers everywhere. Send \$1.25 for trial package of one dozen 7-in. pencils.



#### DAHLIA OR TREE LABELS

	Price per 1000
Plain	Painted
3½x½ ins. Notched, not wired....	\$2.50 \$3.00
3½x½ ins. Wired (Copper).....	3.40 4.20

#### POT LABELS

	Price per carton
4x½ ins. (Ctns. 1000 ea.).....	2.75 3.30
5x½ ins. (Ctns. 1000 ea.).....	3.00 3.60
6x½ ins. (Ctns. 1000 ea.).....	3.30 4.05
8x½ ins. (Ctns. 500 ea.).....	\$2.40 \$3.00
10x½ ins. (Ctns. 500 ea.).....	3.00 3.60

#### GARDEN STAKES

	Price per carton
Plain	Painted
8x ¾ ins. (Ctns. 250 ea.).....	\$2.00 \$2.20
10x ¾ ins. (Ctns. 250 ea.).....	2.20 2.40
12x1½ ins. (Ctns. 100 ea.).....	1.40 1.60

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

*"We ship same day"*

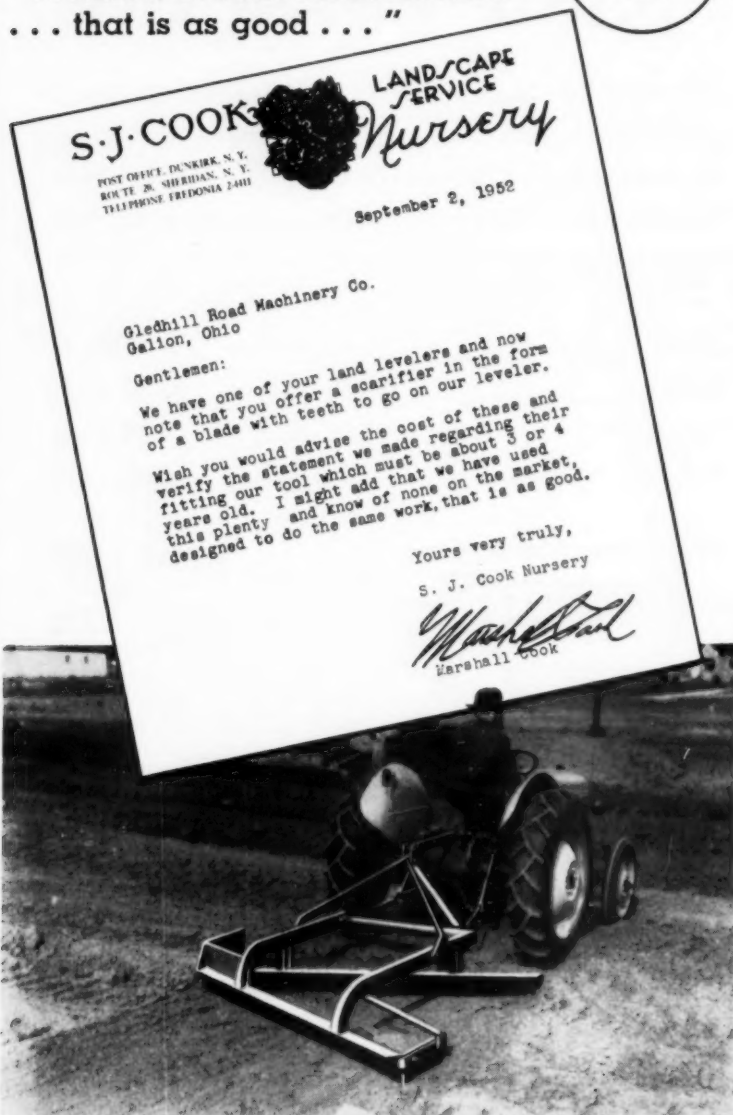
## YOH & HOOKER

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Youngstown 1, Ohio  
Catalog on request

## SEE WHAT USERS SAY ABOUT THE GLEDHILL LAND LEVELERS

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DUNKIRK  
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"... know of none on the market  
... that is as good ..."



No wonder Mr. Cook is enthusiastic! Seldom have nurserymen seen a tool that will do so much for so small an investment. It attaches readily to any Ford or Ferguson type tractor with 3-point lift. Works equally well in forward or reverse. Scarifier attachment available for breaking up clods and stubborn materials.

**MONEY BACK GUARANTEE — Send for detailed information!**

**THE GLEDHILL ROAD MACHINERY CO.**  
GALION, OHIO

## OBITUARY

Albert E. Maloney

Albert E. Maloney, 69, president of Maloney Bros. Nursery Co., Dansville, N. Y., died April 1 at his home at Dansville.

Born in 1884, Mr. Maloney was a member of the family's firm, one of the oldest nurseries in the state, during his entire life. His two brothers, Edward E. Maloney and William J. Maloney, also served with him in the firm.

The company runs a nation-wide mail-order business and is one of the largest growers of fruit trees in New York. Besides carrying on mail-order, retail and wholesale business, the firm operates retail stores for the sale of shrubs and other nursery stock.

Maloney Bros. Nursery Co. is a member of the American Association of Nurserymen and the National Mail Order Nurserymen's Association.

Dr. Herman Benjamin Baruch

Dr. Herman Benjamin Baruch, 80, owner of the Bagatelle Nursery, Huntington Station, N. Y., statesman and economic adviser to the United States and other governments, died March 15.

Dr. Baruch was born at Camden, S. C., in 1872, the third son of Dr. Simon B. and Belle Wolfe Baruch. One of his brothers is Bernard M. Baruch, New York financier and presidential adviser. He received a bachelor's degree from the City College of New York in 1892 and an M.D. from Columbia University in 1895. He practiced medicine at New York city until 1903, at which time he became a member of the New York Stock Exchange as part of the firm of Baruch Bros. In 1918 this firm merged with H. Hentz & Co., New York bankers and commission merchants.

Dr. Baruch left the financial world 25 years later and accepted posts with the governments of several nations as an economic adviser. He served as United States ambassador to Portugal from 1945 to 1947 and as ambassador to the Netherlands from 1947 to 1949.

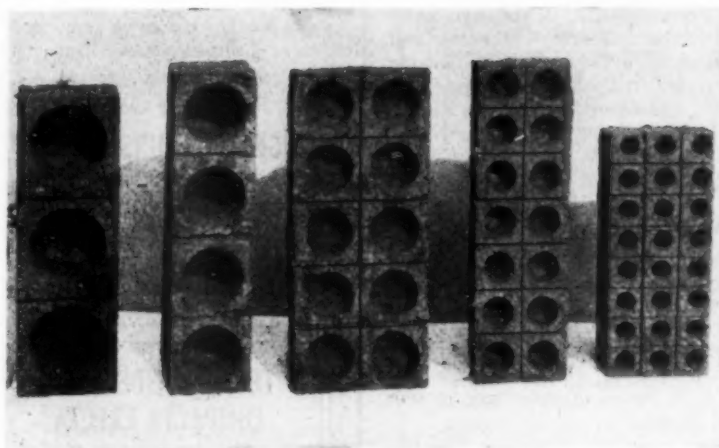
Dr. Baruch belonged to a number of civic and medical organizations, and his firm is a member of the American Association of Nurserymen.

He is survived by his widow, Anna Maria Baruch, Baroness Mackay, of The Hague, Netherlands; two chil-

# SUPERIOR QUALITY NURSERY SUPPLIES

## R E X

### PEAT MOSS SEEDLING POTS



#### PRACTICAL — ECONOMICAL — DEPENDABLE

Made of pure German sphagnum peat moss, they allow uncurbed development and growth.

Ideal for growing on rooted cuttings, seedlings, annuals and vegetable plants. No danger of setback in transplanting.

You plant pot and all. Allows transplanting in driest weather. Pot holds sufficient moisture to sustain plant.

Available in sizes at prices listed. For convenience in ordering, simply indicate number of crates you wish shipped from stock in Mobile, Ala. Approximate shipping weight 40 lbs. per crate. Prices F.O.B. Mobile.

Trans-Sphere Trading Corp.  
Box 1564, Mobile, Ala.

Diameter of Hole	Size of Pot	Depth of Hole	Number of Pots to Crate	Price per crate	Ship Quantity Below
7/8 in.	1 1/4 x 1 1/8 ins.	1 3/8 ins.	2200	\$9.15	
1 3/8 ins.	1 3/4 x 1 3/4 ins.	1 3/8 ins.	1350	7.80	
1 3/4 ins.	2 x 2 ins.	1 3/4 ins.	1100	7.85	
1 3/4 ins.	2 x 2 ins.	2 1/4 ins.	750	7.55	
2 1/8 ins.	2 3/8 x 3 7/8 ins.	1 3/4 ins.	720	6.70	
2 3/4 ins.	3 1/4 x 3 1/4 ins.	3 1/4 ins.	210	6.50	
3 1/4 ins.	4 x 4 ins.	3 3/4 ins.	120	5.25	

☐ Check Enclosed (2% discount)

☐ Invoice

Ship to:

Address:

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The mark of quality in horticultural tools

Koeller knives and shears are made of finest-quality German surgical steel, in Solingen, the center of the German tool industry. Approved by the German Horticultural Society.

Following knives and shears available from stock. Prices given are postpaid, including insurance.



No. 508—6 1/8 ins. long  
\$12.00 doz., \$1.30 ea.



No. 535—6 1/2 ins. long  
\$29.00 doz., \$2.80 ea.



No. 598—7 1/2 ins. long  
\$60.00 doz., \$5.40 ea.  
(Both blades are replaceable)



No. 2053—\$21.00 doz., \$2.00 ea.



No. 2455—\$36.00 doz., \$3.40 ea.



No. 2197—\$45.00 doz., \$4.20 ea.

Trans-Sphere Trading Corp.  
P. O. Box 1564  
Mobile 9, Ala.

Please send us the following shears and knives:

No. 508 \_\_\_\_\_ No. 535 \_\_\_\_\_

No. 598 \_\_\_\_\_ No. 2053 \_\_\_\_\_

No. 2455 \_\_\_\_\_ No. 2197 \_\_\_\_\_

☐ Check Enclosed

☐ Send C.O.D.

Send to:

Address:

## LINING-OUT STOCK

Two-year grafts in:

- Lilacs in choice varieties (true to name)
- Purple Beech, Rivers
- Red Japanese Maple (sold out)
- Wistaria Chinensis (blue)
- Wistaria Rosea (pink)

One-year grafts in:

- Cotoneaster Multiflora (true)
- Koster Blue Spruce (sold out)
- Lilacs in choice varieties (true to name)
- Viburnum Carlesi

Two-year transplants in:

- Cotoneaster Divaricata
- Euonymus Vegetus (sold out)
- Ilex Convexa (cuttings)
- Taxus Brevifolia
- Taxus Cuspidata (spreading) (sold out)
- Taxus Hatfieldi

One-year transplants in:

- Forsythia Spring Glory (new)
- Juniperus Glaucia Hetzi
- Magnolia Soulangeana (grown from cuttings)
- Regel's Privet (genuine) (sold out)

## SALABLE STOCK

DDT-treated to be shipped outside Beetle Area.

**Taxus Cuspidata** (spreading)  
18 to 24 ins.

**Taxus Hatfieldi**  
18 to 24 ins.

Ask for complete list on LINERS and FINISHED STOCK. Your inspection is cordially invited at any time.

## C. HOOGENDOORN

Turner Rd. NEWPORT, R. I.

dren by a previous marriage, Robert P. Baruch and Mrs. Marina Baruch Symmers; two brothers, Bernard M. and Sailing W., and three grandchildren.

### William J. Hughes

William J. Hughes, 69, former owner and operator of the Cedar Rapids Nursery Co., Cedar Rapids, Ia., died in his home at Cedar Rapids March 13, following a long illness. Born in 1884 in the British isles, Mr. Hughes came to this country with his grandparents at the age of 9 and lived for many years in and around Iowa City. He first became interested in the nursery business in 1904. He moved to Cedar Rapids in 1908 and was married to Nettie Jane Williams, at Iowa City, in 1909.

At the time of his semiretirement in 1947, he sold his nursery to his two sons, who still operate it.

Mr. Hughes was a member of the American Association of Nurserymen, the Iowa Nurserymen's Association, the Cedar Rapids chamber of commerce and the First Presbyterian church. He served on the A. A. N. board of governors for several terms.

Surviving, in addition to his widow, are two sons, Dwight W. and Ralph E.; one daughter, Mrs. E. C. Speraw, of Malta, Mont.; three brothers, two sisters and five grandchildren.

### Mrs. Tina Halla

Mrs. Tina Halla, 82, of the Halla Nursery, Minneapolis, Minn., died of a heart attack February 28, it has been learned. Mrs. Halla was an employee of the Halla Nursery, which is owned by her son, Selmer E. Halla, who survives her.

### STUDENT PRESENTED AWARD

Roy Mecklenburg, Arlington Heights, Ill., was recently presented by Prof. Harold Davidson the 1953 award for scholarship and leadership in the field of nursery management at Michigan State College, East Lansing, Mich. In addition to achieving a high scholastic standing, Roy was active in the nursery and landscape forum, a student organization for the advancement of knowledge in the field of ornamental horticulture.

The award is a picture of Beaumont tower, a well-known landmark on the Michigan State campus, which marks the location of the first building in the United States to be devoted to the teaching of agriculture.

## ILEX CONVEXA

15 to 18 ins. — 18 to 24 ins.  
24 to 30 ins.

Specimen quality, sheared.

**Magnolia Soulangeana**

2 to 6 ft., own-root plants.

**Cornus Florida Rubra**

4 to 6 ft.

**Juniperus Hetzi**

1 1/2 to 4 1/2 ft., heavy, sheared.

**Taxus**

Uprights, 2 to 9 ft.

Spreaders, 1 to 5 ft.

Good plants at a price you can afford to pay.

Inspection invited.

Beetle Zone Only.

## ANGELICA NURSERIES

Growers of fine plants.

Located 3 miles south of Reading, Pa., on Rt. 73. Phone Reading 2-3983.

R. D. No. 1,  
MOHNTON, PA.

## THUJA OCCIDENTALIS COMPACTA ERECTA

(NEW)

We offer this new variety in rooted cuttings; also established stock from 2 1/4-in. pots.

Write for descriptive folder in color.

THE WESTMINSTER NURSERIES  
WESTMINSTER, MD.

## FOR 52 YEARS

Our business has been  
growing

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

**BOBBINK NURSERIES, INC.**

586 Paterson Ave.

E. RUTHERFORD, N. J.

## DEL-MAR-VA NURSERIES

Growers of Quality

Taxus, Ilex and other Ornamentals.

Ask for list.

DEL-MAR-VA NURSERIES  
LINCOLN, DEL.

Phone: Milford, Delaware 4445

## Trees, Evergreens, Shrubs Fruit Trees

Write for Our Wholesale Trade List

**W. - T. Smith Corporation.**  
Telephone 2689 GENEVA, N. Y.



## Coming Events

### MEETING CALENDAR

April 23 and 24, spring meeting, Holly Society of America, University of Maryland, College Park, Md.

June 10 and 11, California Association of Nurserymen annual refresher course, California Polytechnic College, San Luis Obispo, Calif.

June 11 to 13, South Carolina Association of Nurserymen, Francis Marion hotel, Charleston, S. C.

June 26 to 28, joint summer meeting, Illinois State Nurserymen's Association and the Wisconsin Nurserymen's Association, Deer Trail Lodge, Heafford Junction, Wis.

July 19 to 23, American Association of Nurserymen, Waldorf-Astoria hotel, New York.

July 21, National Landscape Nurserymen's Association, Waldorf-Astoria hotel, New York.

August 16 to 18, Southern Nurserymen's Association, Biltmore hotel, Atlanta, Ga.

August 18, joint summer meeting, Connecticut Nurserymen's Association, New England Nurserymen's Association and Massachusetts Nurserymen's Association, at the Adams Nursery Co., Westfield, Mass.

October 6 and 7, 12th short course on roadside development, Ohio department of highways, Columbus.

### JOINT SUMMER MEETING

A joint summer meeting will be held by the New England Nurserymen's Association, the Connecticut Nurserymen's Association and the Massachusetts Nurserymen's Association on August 18. The event will be a social affair and is the outcome of an invitation extended to the three groups by the Adams Nursery, Westfield, Mass., where it will be held.

### MIGRATORY FARM LABOR

Farm labor shortages will be met again this season for the seventh consecutive year by Puerto Rican workers under an organized program which protects farmers, workers and local communities. Also, congressional authorization will continue to permit importation of Mexican workers for farm labor during the coming season. This imported migratory help can contribute to the alleviation of labor shortages in American agriculture.

The department of labor of Puerto Rico has just issued, jointly with the farm placement service of the United States employment service, a booklet explaining the program. This may be secured from local free employment offices or from the Migration

## SEEDLINGS

<i>Euonymus alatus</i> , 1-yr., sdg., 2 to 3 ins.	100	1000
<i>Pinus sylvestris</i> , 2-yr., sdg., 4 to 8 ins.	\$5.00	\$45.00
<i>Pinus sylvestris</i> , 3-yr., sdg., 6 to 10 ins.	4.00	35.00
<i>Sorbus aucuparia</i> , 1-yr., sdg., 6 to 12 ins.	6.00	50.00
<i>Syringa vulgaris</i> , 2-yr., sdg., 4 to 8 ins.	7.50	
	5.00	45.00

Well-established cuttings from 2 1/4-in. pots

<i>Euonymus carrierei</i>	10	100
<i>Euonymus vegetus</i>	\$2.25	\$17.50
<i>Ilex crenata bullata</i>	2.25	17.50
<i>Ilex crenata microphylla</i>	2.25	17.50
<i>Ilex glabra</i>	2.25	17.50
<i>Juniperus horizontalis</i> Bar Harbor	2.25	17.50
<i>Juniperus pfitzeriana</i> nana	2.75	22.50
<i>Juniperus suecica</i>	2.25	17.50
<i>Juniperus suecica</i> nana	2.25	17.50
<i>Taxus cuspidata densiformis</i>	2.25	17.50
<i>Taxus media clifforti</i>	2.25	17.50
<i>Taxus media hatfieldi</i>	2.25	17.50
<i>Taxus media hicksi</i>	2.25	17.50
<i>Taxus media Moon's columnaris</i>	2.25	17.50
<i>Taxus media Vermeulen</i>	2.25	17.50

Grafted stock from 2 1/4-in. pots. Spring, 1953, delivery only.

<i>Acer palmatum atropurpureum</i>	10	100
<i>Acer palmatum dissectum atropurpureum</i>	\$7.50	\$65.00
<i>Cornus florida rubra</i>	7.50	65.00
<i>Magnolia lannei</i>	6.00	50.00
<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Magnolia soulangeana</i>	7.00	60.00
<i>Magnolia soulangeana nigra</i>	7.00	60.00
<i>Magnolia stellata</i>	7.00	60.00

FRENCH HYBRID LILAC, 1-year, field-grown grafts in the following varieties:

Charles X, Le Gaulois, Marie Legraye, Rubra de Marley	10	100
	\$3.00	\$25.00

Prices are F.O.B. Mountain View, N. J.; packing additional, at cost. Usual terms to those of established credit. No goods sent C.O.D. unless 25 per cent of amount is sent with order. All this material is listed subject to prior sale and crop conditions.

## HESS' NURSERIES MOUNTAIN VIEW, N. J.

## our selling means SALE SAVINGS FOR YOU!

The contemplated sale of a small acreage of our nursery land means we must sell the large material located there. To do this, we have drastically reduced prices on this material, which includes:

**BIG** SPREADING YEWS  
AMERICAN HOLLIES  
UPRIGHT YEWS

For  
35 years  
one of America's  
leading nurseries



**DISPLAY GARDENS**  
7817 York Road  
Towson 4, Md.

**NURSERIES**  
Cockeysville,  
Md.

## HEDGE PLANTS

Our soil and climatic conditions are ideal for the production of good Privet. We guarantee our stock to be as well-grown and developed in grade as any in this country. Write for special prices on large numbers.

### CALIFORNIA PRIVET

(*Ligustrum ovalifolium*)

	Per 10	Per 100	Per 1000
6 to 12 ins., 2 canes or more.....	\$0.85	\$ 7.00	\$ 65.00
12 to 18 ins., 3 canes or more.....	1.20	10.00	90.00
18 to 24 ins., 3 canes or more.....	1.40	12.50	110.00
2 to 3 ft., 4 canes or more.....	1.85	16.00	150.00
3 to 4 ft., 6 canes or more.....	3.00	25.00	220.00
4 to 5 ft., 6 canes or more.....	4.50	37.00	350.00

### IBOLIUM PRIVET (*Ligustrum ibolium*)

Can be furnished in exact grades and prices as California Privet listed above.

### AMUR RIVER NORTH PRIVET (*Ligustrum amurense*)

	1.00	8.50	75.00
6 to 12 ins., 2 canes or more.....	2.50	20.00	175.00
2 to 3 ft., 4 canes or more.....	4.00	35.00	300.00

Free packing for cash with order. Write for special prices on quantity lots. Our regular wholesale list offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale rates, kindly use your printed stationery indicating you are entitled to trade prices.

## BUNTINGS' NURSERIES, INC.

Box 3

SELBYVILLE, DEL.

## BOOKS on INSECT and DISEASE CONTROL

PLANT DISEASE HANDBOOK, by Cynthia Westcott.....\$8.50

Quick, accurate detection of diseases caused by bacteria, fungi, viruses, nematodes and nutrient deficiencies. Trees, shrubs, vines, flowers and vegetables are included. 746 pages, illustrated. (1950).

DISEASES AND PESTS OF ORNAMENTAL PLANTS,

by Dr. Bernard Dodge and W. L. Rickett.....\$6.00

Besides general chapters on diseases, insects and control measures, describes pests affecting some 600 species of plants in alphabetical order. 638 pages, illustrated. (1948).

SPRAY CHEMICALS AND APPLICATION EQUIPMENT,

by J. A. McClintock and Wayne B. Fisher.....\$6.25

Discusses methods of using spray chemicals, insects and diseases controlled by specific chemicals and methods of improving present pest control practices. Describes sprayers and dusters now available. About 500 illustrations. 320 pages. Third edition. (1949).

TAYLOR'S ENCYCLOPEDIA OF GARDENING,

by Norman Taylor.....\$5.00

Completely revised edition of the Garden Dictionary, expanded by over 1000 entries. New sections are devoted to soilless gardens, plant hormones, pest control, storage and deep freezing of vegetables. Illustrated with drawings, maps and diagrams. 1225 pages. (1948).

## AMERICAN NURSERYMAN

343 S. Dearborn St.

CHICAGO 4, ILL.

## HARDY NATIVE EVERGREENS

Collected Stock

Canadian Hemlock, American  
Arborvitae, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., sdlg.....	\$1.00	\$ 5.00
3 to 6 ins., sdlg.....	2.00	10.00
6 to 9 ins., sdlg.....	3.00	20.00
9 to 12 ins., sdlg.....	7.00	45.00
12 to 18 ins., sdlg.....	9.00	70.00

All first-quality stock, well-rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

**R. M. COLE**

Box 37 CHARLOTTE, VT.

## CHINESE CHESTNUTS

Hemming strain of heavy-bearing trees.

	Each Per 10	Each Per 100	Each Per 1000
12 to 18 ins.....	\$0.25	\$0.22½	\$0.20
18 to 24 ins.....	.35	.32½	.30
2 to 3 ft.....	.60	.55	.50
3 to 4 ft.....	SOLD OUT		

**EASTERN SHORE NURSERIES, INC.**

EASTON, MD.

## FIVE HUNDRED ACRES OF ORNAMENTAL STOCK

Both evergreens and deciduous in liners and finished materials.

Our list is now available.

**FAIRVIEW EVERGREEN NURSERIES**  
FAIRVIEW, PA.

division, Puerto Rico department of labor, 21 West 60th street, New York 23, N. Y.

Although congressional authorization for the importation of Mexican laborers for use in farm work will expire December 31, 1953, permitting their use during the coming season, Sen. George D. Aiken, chairman of the Senate committee on agriculture and forestry, has sponsored a bill, S. 1207, to extend this authorization to December 31, 1956. A similar bill, H. R. 3480, is being considered by the agricultural committee of the House of Representatives, under the chairmanship of Rep. Clifford R. Hope. Nurserymen in many parts of the country have found Mexican labor to be indispensable.

Secretary of Labor Durkin has indicated that he would support the extension of United States public law 78, under which the program of importation of Mexican nationals into the United States as farm workers has been permitted.

## BULB MOTIFS POPULAR

The Associated Bulb Growers of Holland report many ways in which tulip, daffodil and hyacinth motifs are being used this spring by manufacturers and designers of the most varied consumer articles.

Tulips provide the central theme for the 1953 festival of Mohawk Carpet Mills, which is showing all its new fabrics in tulip outlines.

Textile firms are making tulip, daffodil, hyacinth and crocus prints. Among those featured nationally are the chintz tulip prints by Kandell; Desley's "Knickerbocker tulip" fabric, used in bedspreads and draperies, and a whole range of kitchen and bathroom plastic fabrics by Cohn-Hall-Marx featuring bulb flowers and Dutch scenes.

In the world of fashion, Christian Dior's tulip silhouette has been making headlines everywhere, and American designers are exploiting this basic shape in one form or another. Tulips and daffodils are prominent as backdrops in fashion photography, an outstanding example being the daffodils shown on the cover of the New York Times spring fashion supplement.

"Blue Hyacinth" perfume and "Tulip Time" stationery are two other items included in the long list of products with a bulb-flower inspiration.

By stimulating conversation about spring flowers, the bulb group hopes not only to boost retail sales but also to enlarge the fall purchases of bulbs for commercial growing.

# WILLIAMSBURG SYMPOSIUM VIEWS GARDENING TRENDS

This is the age of the small garden—low-cost and laborsaving—with improved plants and scientific marvels, according to amateurs and experts on landscaping and horticulture meeting at the 1953 Williamsburg garden symposium, which was held at Williamsburg, Va., and ended March 20.

In six days of lectures and group discussions cosponsored by Colonial Williamsburg and Flower Grower magazine, the experts also agreed that the days of vast estates are numbered, that design is becoming more important in gardening and that more people are planting gardens than ever before.

Speaking to some 350 home gardeners from the United States and Canada, the experts listed labor shortages, high labor costs and modern demands on spare time as shaping the trend towards gardens that require little work to maintain. To meet this easy-upkeep need, they said, gardeners are de-emphasizing flowers and making greater use of trees and shrubs, particularly evergreens. Green gardens with a few color accents and flowering trees and shrubs are becoming increasingly popular.

The experts viewed the economy trend in gardening as a good thing. People are buying fewer plants, they said, but are being more critical and selective about what they do buy.

While high taxes and living costs are dooming large estates, the modest garden of the "average" man is coming into its own, the authorities said. Today's ranch-style architecture, picture windows and emphasis on gardens as outdoor living space are all helping to promote interest in gardening, and this interest is being furthered by garden clubs, plant societies, flower shows, etc. Gardening in America is also spreading through the countryside with the landscaping of parkways and factory sites, they noted.

The experts also pointed out that science is making gardens better than ever through efforts to breed hardier, larger, longer-blooming plants; through chemicals to control garden pests, and through the development of compounds to improve the condition of the soil.

The greatest gardening need today, according to horticulturist Patrick J. McKenna, is landscape architecture at its best to combat the "deadly sameness" that is occurring today even in our best communities.

# POTTED GRAFTS FOR SPRING, 1953

	Per 100	Per 1000
Acer Palmatum Atropurpureum	\$ 65.00	
Acer Palmatum Dissectum Atropurpureum	65.00	
Cornus Florida Alba Plena	50.00	
Cornus Florida Pendula	50.00	
Cornus Florida Rubra	50.00	\$450.00
Cornus Florida Rubra Prosser	65.00	
Cryptomeria Lobbi	50.00	
Fagus Sylvatica Asplenifolia (Fernleaf)	65.00	
Fagus Sylvatica Fastigiata (Pyramidal)	65.00	
Fagus Sylvatica Pendula	65.00	
Fagus Sylvatica Riversi (Purple Beech)	65.00	
Magnolia Alba Superba	60.00	
Magnolia Lennei	65.00	
Magnolia Soulangeana	60.00	
Magnolia Soulangeana Nigra	60.00	
Magnolia Stellata	60.00	
Magnolia Stellata Rosea	60.00	
Magnolia Stellata Rubra	60.00	
Magnolia Stellata Waterlily	60.00	
Pinus Cembra	50.00	
Pinus Strobus Nana	50.00	
Pinus Strobus Pendula	50.00	
Pinus Parviflora Glauca	50.00	
Picea Moerheimi	100.00	
Tanyosho Japanese Table Pine	40.00	
Tsuga Canadensis Heterophylla	40.00	
Tsuga Canadensis Sargentii	45.00	
Wistaria Multijuga (Lavender clusters)	40.00	

No Packing Charges. 25 per cent deposit on all C.O.D. orders.

## VAN DINE NURSERY

Berdan Ave., R. D. 4

Breakneck, Paterson, N. J.

# QUEEN O' the LAKES (Dark Velvety Red)



and 30 other fragrant  
**SUB-ZERO**

## HYBRID TEAS

Large and beautiful as any. Easy to grow; long to live. Bloom more; more constantly. Save replacement expense.

Tree Roses topped with all varieties can survive 15 degrees below zero without protection.

also 20

Yellow and Orange Climbers

Write for trade prices to

## BROWNELL ROSES

LITTLE COMPTON, R. I.

## RED OAKS

30,000

In Nursery Rows

20,000 1 to 2-in. cal.

10,000 2 to 6-in. cal.

Other Shade Trees Available.

Write for Prices

## THE BUDDIES NURSERIES

P. O. Box 14

BIRDSBORO, PA.

## EVERGREEN SEEDLINGS

	Per 100	Per 1000
1-YR. Riga Scotch Pine, 2 to 4 ins.	\$4.00	\$22.00
2-YR. Pinus Sylvestris, 2 to 6 ins.	5.00	25.00
2-YR. Aust. Pine, 2 to 6 ins.	6.00	32.00
2-YR. Col. Blue Spruce, 2 to 5 ins.	6.00	32.00
2-YR. Col. Blue Spruce, 5 to 8 ins.	7.00	40.00

### TRANSPLANTS

	10 Rate Each	100 Rate Each
Col. Spruce, sheared, bushy, field row.		
12 to 15 ins., XX, bare root.	\$0.75	\$6.75
15 to 18 ins., XX, bare root.	1.00	9.50
18 to 24 ins., XX, bare root.	1.35	13.00

Free packing, cash with order.

For B&B trees, add 40¢ each.

Pick up only on B&B.

## GORTON'S NURSERY

R.D. No. 1, East Lake Road,

HARBORCREEK, PA.



## Book Reviews

### GUIDE TO WOODY PLANTS

Residents of the northeastern United States, including New England, New York, New Jersey, Delaware and Pennsylvania, have Arthur Harmount Graves to thank for the first really complete listing and descriptive text of all woody plants likely to be found in the area. The author, who is curator emeritus of the Brooklyn Botanic Garden, has included descriptions for year-round identification of all area trees, shrubs, wild or cultivated, native or exotic, in his new 240-page volume, "Illustrated Guide to Trees and Shrubs." The volume, which was published by the author, at Wallingford, Conn., sells at \$4 and is intended for use in the field. With the aid of simple keys, an unknown twig or leaves can be identified. Maud H. Purdy, one of the world's foremost botanical artists, made more than 300 line drawings which amply illustrate the text.

### THE ANATOMY OF PLANTS

Katherine Esau, in writing "Plant Anatomy," has succeeded in bringing together the substance of a course in the anatomy of seed plants. Intended especially for advanced students in plant sciences and teachers of plant anatomy, the 735-page volume should also attract the less advanced student because of the author's straightforward style in explaining and analyzing the basic terms and concepts of plant anatomy.

This book is not light reading; it is an excellently annotated text for the serious student. John Wiley & Sons, Inc., New York, published the volume, which sells at \$9. More than 90 pages of plates, plus hundreds of line drawings, describe text discussions.

### DO IT WITH CONCRETE

Another of those immensely successful how-to-do-it books has been released. "What to Make with Concrete," which sells at \$2 per copy, is published by Popular Mechanics Co., Chicago. Of special interest to home gardeners and landscape nurserymen, the 112-page volume is designed for its adaptability to any outdoor and indoor project that might call for the use of concrete. Excellent illustrations accompany the clear, easy-to-read text, and, it might be added, plotted

diagrams explain construction methods as thoroughly as the text. Extra tools and equipment, aside from a shovel and a hoe, can be improvised from odds and ends in the basement. Divided into six sections, the volume takes the handyman through such subjects as the methods of making concrete and its uses, the building of a machine for the manufacture of concrete blocks, projects for the house and garden and short cuts with concrete. This thoroughly practical and usable book is a "must" for the man who builds with concrete.

### TWO GARDEN BOOKS

The eminent garden authority, Norman Taylor, has launched a new series of authoritative garden reference books, entitled "Taylor's Garden Guides," which will sell at \$2 per volume. A 128-page volume, "The

Permanent Garden," describes how property owners can enhance the value of and beautify grounds around the home with the use of trees, shrubs and vines. Because not everyone will want to use the plantings suggested by the author, the book includes a listing of all the best available plant materials together with their culture and hardiness and full instructions for moving or planting. Line drawings illustrate the uses to which the plantings may be put around the home.

"Color in the Garden," a 118-page volume, is designed to enable the gardener to plan and produce a garden utilizing the predominant color of his choice so as to have continuous bloom in that color throughout the growing season. All plants are described, giving specific color and month of bloom and other pertinent information such as height and habit of the individual plant. Throughout the volume, best varieties are recommended. Six illustrated plans, one for each of the colors dis-

## ROSA MULTIFLORA JAPONICA

Hardy northern-grown seedlings. Upright, thorny type for stock-tight living fences, conservation and understock. We select our seeds for trueness to type. The plants are excellently grown.

	Per 1000
2 to 3 mm., 12 to 15 ins. in height.....	\$15.00
3 to 4 mm., 15 to 18 ins. in height.....	18.00
4 to 6 mm., 18 to 24 ins. in height.....	35.00
6 to 8 mm., 24 to 30 ins. in height.....	45.00
Conservation grade, 12 to 20 inches in height.....	22.50

Will be shipped cut back to about 8 inches unless you state otherwise.

TERMS: Free packing when cash is sent with the order  
C. O. D. shipments require 25% with order.

Sample for \$2.00.

## BROOKVILLE NURSERIES

GLEN HEAD, N. Y.

### EVERGREENS

#### NORTHERN-GROWN

Canadian Hemlock, American  
Arborvitae, Balsam Fir.

	Per 100	Per 1000
2 to 4 ins., sdgls.....	\$ 1.00	\$ 5.00
3 to 6 ins., sdgls.....	2.00	10.00
6 to 9 ins., sdgls.....	3.00	20.00
9 to 12 ins., sdgls.....	7.00	45.00
12 to 18 ins., sdgls.....	9.00	70.00
18 to 24 ins., sdgls.....	25.00	....

Freshly collected. Well-rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, etc., on request.

**William Crosby Horsford**  
CHARLOTTE, VT.

### HEMLOCK

Rhododendron — Kalmia  
Azalea

**CURTIS NURSERIES**

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### BOULEVARD NURSERIES

Newport, R. I.

- Lining-Out Stock
- Root-Thru Plant Pots
- Samples and Prices on Request



cussed, suggest actual arrangements for sections or borders.

Both volumes were published by D. Van Nostrand Co., New York.

### PLANTS IN THE HOME

The use of foliage and flowering plants has become such an important adjunct to the modern home and mid-20th century living that most home-building contractors and architects now include built-in plant containers or areas especially designed for the housing and display of plant materials. As the popularity of the house plant has increased, the number of treatises on the subject has spiraled; and Ruth Gannon, who might be remembered as the author of "Winter Bouquets with Color," has produced a handsome, readable, authoritative account of this aspect of indoor gardening in the new, 136-page volume, "Decorating With House Plants." Published by the Studio Publications, Inc., in association with Thomas Y. Crowell Co., New York city, the book contains 105 illustrations, including full-color plates and pen-and-ink sketches. The author has concentrated on the plants which are most suitable for indoor culture, and she explains how to force bulbs indoors, the growing of plants from seeds, soil conditions, feeding, pest control, how to make cuttings for propagation, how to encourage blooming and pruning. Specific information is given on the care and culture of particular house plants. The over-all theme of the book details the many fascinating ways to decorate the home with plants. As an aid to the reader, a list of specialist growers is given, with addresses. The price is \$5.

### "WEED CONTROL"

Presented on a college level, the second edition of "Weed Control," by Wilfred W. Robbins, Alden S. Crafts and Richard N. Raynor, was designed to cover the subject of weeds and weed control from the economic and agronomic standpoints, to present a modern view of the enlarging field of chemical weed control. The 530-page volume, published by McGraw-Hill Book Co., New York, and priced at \$8, is profusely illustrated with photographs, drawings and diagrams. This useful manual answers the many questions asked about the control and eradication of common, noxious weed pests.

LEO J. FALCONE is the new owner of the San Marino Nursery, South Pasadena, Calif.

## COTONEASTER

These are all strong seedlings.

	Per 100	Per 1000
Cotoneaster Horizontalis, 1-yr. seedlings, 2 to 4 ins...	\$10.00	\$ 90.00
Cotoneaster Horizontalis, 1-yr. seedlings, 4 to 6 ins..	15.00	125.00
Cotoneaster Praecox, 1-yr. seedlings, 4 to 8 ins.....	25.00	....

### Cotoneaster Multiflora

This species is becoming popular as it is one of the hardiest Cotoneasters. It went through 44° below zero and only the young tips froze back—the rest of the wood was uninjured. It has large white flowers in the spring similar to a hawthorn and large clusters of bright red berries in the fall. Consequently, it is showy in bloom as well as in its berries. This is an upright-growing type.

Strong, 1-yr. grafts, true to name

18 to 24 ins.....\$65.00 per 100; \$600.00 per 1000

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Turner Road

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## TAXUS MEDIA HALLORAN

Past winters have proved this variety to be very well adapted for the middle western climate. We have 1, 2 and 3-year liners to offer.

**VERKADE'S NURSERIES**

NEW LONDON, CONN.

## LILACS

On own roots.  
Large plants, 6 ft. and up,  
Charles X, William Robinson,  
Pres. Grevy, Leon Gambetta, etc.  
To plant now  
AMERICAN ARBORVITAE, 10 ft.  
An assortment of heavy stock  
for landscaping.  
RED LAKE RED CURRANTS,  
2-yr. No. 1

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**HEASLEY'S NURSERIES**

Freeport Road  
BUTLER, PA.

## QUALITY LINERS

	Per 100
Canadian Hemlock 3 to 6 ins., trans.....	\$12.50
Mugho Pine (true dwarf type) 4 to 8 ins., trans.....	20.00
Taxus (all best varieties) 6 to 8 ins., trans.....	27.50

Send for new Spring List.

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EVERGREEN TREE  
LINING-OUT STOCK  
For Spring 1953

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Division of Seabrook Farms

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Specializing in the propagation of grafted lining-out stock of all kinds. Write for our new list of lining-out stock.

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

**The STEDMAN NURSERIES**  
NEWFANE, N. Y.

## CHOICE NURSERY STOCK SURPLUS LIST

	Per 100
200 Andromeda Japonica, 12 to 15 ins. ....	\$150.00
100 Azalea Kaeferi, 4-yr. x. ....	75.00
50 Azalea Mollis Dr. Oosthoek, 12 ins. (\$2.00 each) ..	
100 Azalea Pontica, 4-yr. x. ....	150.00
25 Azalea Rosaeclara, 12 to 15 ins. ....	350.00
50 Azalea Sang de Gentbrugge, 3-yr. ....	250.00
100 Azalea Schlippenbachii, 3-yr. ....	65.00
25 Azalea Ward's Ruby, 10 to 12 ins. ....	300.00
50 Berberis Julianae, 1-yr. x. ....	50.00
25 Betula Pendula Laciniata, 8 to 10 ins. ....	600.00
100 Blue Spruce (hand-picked seed), 3-yr. ....	25.00
500 Buxus Koreana, 2-yr. x. ....	50.00
50 Chamaecyparis C. Coralliformis, 1-yr. grafts. ....	75.00
50 Cotoneaster Wardii, 1-yr. grafts. ....	60.00
10 Euonymus Alatus, 1½ to 2 ft. (\$1.50 each). ....	
100 Euonymus Alatus Compactus, 2-yr. x. ....	50.00
1000 Euonymus Coloratus, 1-yr. cuttings. ....	20.00
10 Euonymus Europaeus, 3 to 4 ft. ....	75.00
200 Euonymus Radiatus Variegata, 3-yr. ....	75.00
10 Ginkgo, 10 to 12 ft. (\$6.00 each) ..	
50 Hawthorn, Paul's Scarlet, 7 to 8 ft. ....	500.00
20 Hydrangea Serrata Acuminata, 2 to 3 ft. ....	250.00
50 Juniperus Sargentii, 1-yr. grafts. ....	90.00
50 Koeleria, 3 to 4 ft. ....	150.00
100 Mahonia Aquifolium, 3-yr. x. ....	60.00
75 Mahonia Aquifolium, 18 to 24 ins. ....	400.00
100 Mahonia Nervosa, 1-yr. x. ....	35.00
40 Maple Crimson King, 7 to 8 ft. ....	550.00
100 Philadelphus Burfordensis, 1-yr. ....	100.00
100 Picea Omorika, 3-yr. ....	25.00
10 Prunus Serrulata Kwanzan, 5 to 6 ft. ....	450.00
25 Flow. Raspberry, 8 to 4 ft. ....	100.00
50 Syringa Microphylla Superba, 18 to 24 ins. ....	150.00
10 Viburnum Americanum, 2 to 3 ft. (\$1.00 each) ..	
50 Viburnum Opulus Nana, 2-yr. x. ....	75.00

Cash with order. 50 at 100 rate.

**BRIMFIELD GARDENS NURSERY**  
245 Brimfield Road  
WETHERSFIELD, CONN.

## AZALEA MOLLIS

(Chinese Azalea grown from seeds.)

Very hardy. Blooms before leafing. Foliage bright green and attractive, turning to gorgeous shades of bronze and red in the fall. Flowers are large and borne in great profusion. Varied colors.

We offer 15,000 2-year, once-transplanted, well-rooted plants in cold frames for spring delivery.

\$18.00 per 100; \$160.00 per 1000.

Cash with order. Free packing.

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Splendid Stock

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## Plant Patents

The following plant patents were issued recently, according to Rummel, Rummel & Snow, Chicago patent lawyers:

No. 1159. Azalea plant, to Lenard L. Brooks, Modesto, Calif. A new and distinct variety of azalea plant of the Kurume class, comprised of a cross between the Kurume azalea Hexe and the Belgian Indica azalea William Van Orange, characterized by its ease of reproduction on its own roots; its excellence as a greenhouse forcing and garden variety; its rapid and yet much-branched, compact, uniform habit of growth; its large leaves, which are heavy-textured when mature and deep green when forced in a greenhouse; and its large, ruffled hose-in-hose red flowers having an undertone of orange which produces a rose shade.

No. 1160. Nectarine tree. Issued to Frederic W. Anderson, Merced, Calif., assignor to Kim Bros., Reedley, Calif. A new and distinct variety of nectarine tree bearing a large, firm, yellow-fleshed, freestone fruit, yellow in color but almost completely overspread with red; such fruit ripening approximately one month later than the Sun Grand nectarine, immediately subsequent to the clingstone Le Grand nectarine and substantially with or a few days earlier than the Stanwick nectarine.

No. 1161. Nectarine tree. Issued to Frederic W. Anderson, Merced, Calif., assignor to Thomas Burton Stribling, Jr., of Stribling's Nurseries, Merced. A new and distinct variety of nectarine tree bearing large, firm yellow-fleshed freestone fruit with yellow skin splashed and mottled with red; such fruit ripening approximately with the clingstone Le Grand nectarine and J. H. Hale peach, and being more globose in shape than the Le Grand.

No. 1162. Chrysanthemum plant. By Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of chrysanthemum plant of the decorative class, characterized particularly as to novelty by the unusual combination of color, shape and size of its flowers, unique in outdoor chrysanthemums; by its bushier habit of growth and the production of many more branches than usual, and by its greater tendency to stool and produce runners.

No. 1163. Rose plant. By Martin R. Jacobus, Ridgefield, N. J., assignor to Bobbink & Atkins, East Rutherford, N. J. A new and distinct variety of rose plant of the everblooming climber type, characterized as to novelty particularly by its extremely hardy, rugged, vigorous and everblooming habits of growth; by the long-lasting quality of its blooms and the general effect of extreme floriferousness thereof against a background of dark green, mildew-resistant foliage, and by the predominant white color of its blooms, sometimes tinted with lemon-yellow color, but eventually changing to white.

No. 1164. Rose plant. By Hendrikus Antonie Maria Verschuren, Haps, Netherlands, assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct

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Heavy-rooted cuttings  
Well-established potted  
and bed-grown liners.

See our classified ad  
under Evergreens or write  
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300 acres of choice Evergreens  
ready for immediate resale

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ROCKY HILL, CONN.



## EVERGREENS

	Per 100	Per 1000
3000 Banks Pine, S., 3-yr. ....	\$3.50	\$20.00
2000 Norway Spruce, S., bed-run, 3-yr., 6 to 12 ins. ....	6.00	40.00

All orders subject to prior sales. Shipped express collect. Cash with order.

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## ILEX BULLATA

6 to 8 ins., 2-yr., T . . . . . \$15.00 per 100

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NESHAMINY, Bucks Co., PA.

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Leading wholesale source for  
Nursery Stock

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Manchester, Conn.

variety of rose plant of the hybrid tea class, particularly characterized as to novelty by the light orange-yellow color, with shadings of deep chrome, of its flowers; by the high-centered and increased petalage characteristic of its flowers; by the leathery, dark cress-green color of its foliage, and by the general similarity of its thorns and foliage to those of its parent, Golden Scepter (plant patent No. 910).

No. 1165. Chrysanthemum plant. By Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative class, characterized particularly as to novelty by the large size of its flowers; by the distinctive nopal-red general color tonality of its flowers, and by its early-flowering, winter-hardy and frost-resistant habits of growth.

No. 1166. Chrysanthemum plant. By Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the incurved type, characterized particularly as to novelty by its large-flowered blooms on straight, upright growth; by the improved frost resistance of the large-size flowers; by the distinctive empire-yellow general color tonality of its flowers, and by its hardiness and early-blooming habits of growth.

No. 1167. Rose plant. By Walter E. Lammerts, La Canada, Calif., assignor by mesne assignments, to Germain, Inc., Van Nuys. A new and distinct variety of rose plant of the hybrid tea class, characterized as to novelty particularly by its relatively vigorous and compact habit of growth; by its abundance of foliage and retention of the same clear to the base of the plant even on older plants late in the season; by its relatively long buds and the long-pointed to urn-shaped form of the same; by its resistance to mildew and black spot; by its predominant tendency to bear its flowers on sturdy, medium-long stems; by the reduced tendency of its buds to ball as they open during cool, foggy weather, and by the predominately chrysanthemum-crimson general color effect of its open flowers, but with an appearance to the eye of a lighter and iridescent glowing red color, and with a tendency to shadings of rose-red.

No. 1168. Chrysanthemum plant. By Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative type, characterized particularly as to novelty by its upright growth, stiff stems and improved form of plant and size; by its free production of blooms having a general color tonality of hydrangea pink, suffused with light buff; by its healthier growth and improved frost resistance, and by the silvery cast of its foliage over the entire plant.

No. 1169. Chrysanthemum plant. By Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the incurved type, characterized particularly as to novelty by the relatively large size and deep color of its blooms, which have a general color tonality of nopal-red lightly overcast with carmine, and by the earliness of its blooming habit.

THE Oxnard Nursery, Oxnard, Calif., held a grand opening recently.



1-yr. Asparagus block in 3 1/2-ft. rows.

## ASPARAGUS ROOTS

"We grow 'em by the million."

Our high-quality roots are backed by 25 years of growing experience. All roots are freshly dug for your order with the most modern digging equipment available to assure a complete undamaged root system. Roots are graded to conform with U. S. horticultural standards; 1-yr. weighing 60 lbs.; 2-yr., 120 lbs., and 3-yr., 250 lbs. per thousand.

### MARY WASHINGTON

	100	1000
3-yr., Heavy .....	\$4.00	\$30.00
2-yr., No. 1 .....	2.50	20.00
1-yr., No. 1 .....	2.00	14.00

Special prices are available for large quantity lots. We also have a bulk price on ungraded roots in either 1 or 2-yr. size.

**KRIEGER'S WHOLESALE NURSERY**  
Phone: Bridgman 22      Bridgman, Mich.

## ANNOUNCEMENT

We regret to announce that Dr. Herman B. Baruch died March 15, 1953. His death, however, will not interrupt the continued operation of our firm. Bagatelle Nursery will go on as formerly.

Frank Williams, Mgr.  
**BAGATELLE NURSERY**  
P. O. HUNTINGTON STATION, N. Y.

## PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates. Strong, well-rooted, 1-yr. plants: \$3.75 per 100; \$35.00 per 1000; \$32.50 per 1000 for 5000 or more in one shipment. Available for prompt shipment—late March through November. Order now for your spring requirements.

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### Specialists in PERENNIALS

SEEDS—PLANTS—BULBS  
Perhaps America's largest list of unusual plant materials.  
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**NORTHERN-GROWN**

Grown, graded and packed to reach you in perfect condition.

**3-yr. Seedlings** Per 100 Per 1000

<b>Black Hills Spruce</b>		
6 to 8 ins.....	\$4.50	\$40.00
4 to 6 ins.....	3.50	30.00
<b>Norway Spruce</b>		
6 to 8 ins.....	3.50	30.00
4 to 6 ins.....	3.00	25.00
<b>Scotch Pine, Riga</b>		
4 to 8 ins.....	3.50	25.00

**2-yr. Seedlings**

<b>American Arborvitae</b>		
2 to 4 ins.....	3.00	25.00
<b>Black Spruce, 2 to 4 ins.</b>	3.00	25.00
<b>Black Hills Spruce</b>		
2 to 4 ins.....	3.00	25.00
<b>Norway Spruce, 2 to 4 ins.</b>	2.50	22.50
<b>Mugho Pine (Certified Tyro-</b>		
<b>lian Seed), 2 to 3 ins.</b>	4.00	35.00
<b>Scotch Pine, Riga</b>		
2 to 4 ins.....	2.50	20.00
<b>Douglas Fir, 2 to 4 ins.</b>	2.50	20.00
<b>Concolor Fir, 2 ins.</b>	4.00	....
<b>Platte River Red Cedar,</b>		
no blight,		
8 to 10 ins.....	3.00	25.00
6 to 8 ins.....	2.00	18.00
4 to 6 ins.....	1.75	15.00
1-yr., 2 to 4 ins.		
(Average 3 1/2 ins.)...	1.75	12.00
Special price on Red Cedar lots 10 to 100,000.		

<b>Juniperus Communis</b>		
2 to 4 ins.....	3.00	25.00
<b>Juniperus Scopulorum</b>		
2 to 4 ins.....	3.00	25.00

<b>American Arborvitae,</b>		
once-transp., 4-yr.,		
12 to 15 ins.....	15.00	125.00
10 to 12 ins.....	12.00	110.00
8 to 10 ins.....	8.00	75.00
<b>American Larch, 4-yr.</b>		
3 to 3 1/2 ft.....	15.00	....
2 to 2 1/2 ft.....	10.00	....

Write for list.

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If so, please write for copy of our new wholesale price list.

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Wholesale growers of a general assortment for the best landscape plantings.

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Over 100 Years' Nursery Experience

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MONROE, MICHIGAN

GET THE BEST BUY ILGENFRITZ

**ELBERT READ FEATURED**

Elbert Read, president of the Henry Field Seed & Nursery Co., Shenandoah, Ia., was featured in a recent issue of the Des Moines Sunday Register. The story appeared in a regular column of the newspaper entitled "Business Leaders in Iowa." It described the operating policies of the nursery as well as Mr. Read's managerial activities, stressing the nursery's high ethics, excellent reputation and "customer first" policy.

Under Mr. Read's direction, the nursery has doubled its business in the past three years, last year grossing between three and four million dollars. In spite of increases in postage and express rates, the nursery has been able to increase profits by improved packaging and shipping techniques. The article cited one such technique—the use of "fresh frozen" stock, strawberry and similar plants, dug in the fall, frozen and shipped directly from the freezer in the spring. Mr. Read regards this, according to the newspaper article, as "the biggest thing that's happened in the nursery business in the past 10 years."

Starting business in his father's bank at Shenandoah, Mr. Read became its vice-president, and, when the bank went out of business in the 1920's, he was a member of the board and a stockholder of the Field company. In 1935, he and John Nicolson, now vice-president, bought a controlling interest in the company, which was then tottering financially, and set the firm back on its feet. Together they managed the company for Henry Field, the concern's founder, until Mr. Field's death in 1949, when Mr. Read became president.

Summing up Mr. Read's business philosophy as "trying to be fair," the story recalled the company's tradition to satisfy the customer, or not sell. The firm follows up every complaint, no matter how small. The firm's friendly relations extend to the junior set, also. "Junior Seedsman" kits are sent to boys on credit. Last year, seed kits were sent to 5,924 boys. This project is kept up, according to the article, because Henry Field made his start in the seed business selling pansy seeds he bought with a dollar he received for his Sunday school attendance record.

**INDOOR PLANT CULTURE**

An experimental project to determine scientifically how plants used in interior decoration should be cared for indoors under artificial light and to obtain information on the best culture practices for these

**Profit**

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PLAN — INCLUDES PLANTS

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(Trade Mark)

Circular Terraced Garden

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NURSERIES**  
BRISTOL, IND.

**HARDY PLANTS**  
**Bulbs and Shrubs**

"America's Finest"

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**Springbrook Gardens**  
MENTOR, OHIO

**O. K. NURSERY**

Mums

Evergreen Rooted Cuttings.

Transplants and

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Upright, 4 to 14 ft.

Truckloads only, no boxing.

**BULK'S NURSERIES**  
BABYLON, L. I., N. Y.



plants is being conducted by the St. Paul (Minn.) Pioneer Press and Dispatch, with the assistance of Holm & Olson, Inc., under the direction of Stan Hampl. More than 200 plants are to be tested at the newspaper offices, where the experiment is taking place. Workers there have been given instructions on the care of the plants and are keeping records on fertilizers, lighting, water and other treatments, which will be analyzed by Prof. Robert A. Phillips, of the University of Minnesota.

### PLAN SCHOOL EXPANSION

Plans for an expansion of facilities of the floriculture division of the New York State Agricultural and Technical Institute, Alfred, N. Y., were recently approved by the state legislature. The cost of the improvement will total \$250,000, and the work will take place on a 6-acre tract of land at the northern end of the village of Alfred, where the institute now maintains a landscape nursery.

Four greenhouses, each 40x150 feet, will be constructed. Each will be partitioned in the middle to allow varied temperature control and will be connected by glass corridors. These will provide 24,000 square feet of working area. A portion of the greenhouses now in use will be torn down and a part of them used for vegetable crops and soil studies. In front of and adjoining two of the greenhouses will be constructed a 1-story structure laid out in the shape of an inverted "T." This building will house a flower shop, laboratory classroom, bulb cellar, refrigeration unit, packing and shipping room, heating plant and garage.

The landscape areas will center about extensive rose, perennial, flower and plant trial gardens. There will also be a specimen nursery of the common better plants and shrubs plus landscape areas containing collections of these plants for display and study purposes.

One of the unique features of the new program is that actual business transactions will be carried out in the flower shop, greenhouses and nursery by the students under faculty supervision.

Although actual construction of the greenhouses and flower shop will be necessarily delayed until about September, the nursery will be enlarged considerably this spring with the purchase of liners and the planting of rooted cuttings produced in the present greenhouse. A lath house is also to be put up this spring.

More traffic; more sales when you install

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- For a fraction of the price of handmade signs.
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AN-2

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180 *Taxus Hicksi*, 15 to 18 ins. .... \$3.00  
 130 *Taxus Hicksi*, 18 to 24 ins. .... 3.75  
 40 *Magnolia Soulangeana*, 3 to 4 ft. 4.00

## JUNIPERS

100 *Irish*, 30 to 36 ins. .... \$2.00  
 100 *Irish*, 3 to 4 ft. .... 2.50  
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 80 *Pfitzer*, 24 to 30 ins. .... 3.75  
 35 *Pfitzer*, 30 to 36 ins. .... 4.50  
 125 *Blue Pfitzer*, 15 to 18 ins. .... 2.50  
 100 *Compact Pfitzer*, 15 to 18 ins. .... 2.50  
 140 *Glaucha Hetz Pfitzer*, 18 to 24 ins. 3.00  
 30 *Glaucha Hetz Pfitzer*, 24 to 30 ins. 3.75  
 45 *Von Ehron Pfitzer*, 18 to 24 ins. .... 2.75  
 15 *Von Ehron Pfitzer*, 24 to 30 ins. .... 3.25  
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 Lining-out Stock a Specialty

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## TREES FOR ENTRANCES

[Continued from page 11]

with the mountain laurel on the opposite side in framing the entrance.

It would have been difficult to place a shrub or shrubs close to the doorway without distracting from the cozy focalization created by the mountain laurel and flowering dogwood. However, the wall at the left of the door would have been extremely blank without some treatment. Shrubs in their natural form could not tone down the glare of this wall; so an espaliered *Euonymus japonicus* completes this pleasing picture. It provides enough green without displaying a definite form. The octagonal window remains uncovered but nicely framed; so it also lends itself to a doorway that mutely invites you to enter.

The wall at the right is not only a small area, but is also nearly always in shadow. The short projected wall that is at right angles to the doorway holds a small-leaved variety of *Euonymus fortunei* radicans.

### Alternate Choices of Trees

Let us recheck our list of plants to see just what other small trees or shrublike trees might have been used in order to produce the same result. It is important that trees with informal semilateral habits be used rather than those with strong, upright branches. Certainly plants with solid, dense forms have no place in such a setting.

The following could be used to replace either the flowering dogwood or the mountain laurel: *Kousa*, or Japanese dogwood, *Cornus kousa*; Japanese maple, *Acer palmatum*, but not its varieties with various colored leaves; Alleghany serviceberry, *Aamelanchier laevis*, if it has been pruned to a clean-limbed plant comparable to the photographed mountain laurel; American hornbeam, *Carpinus caroliniana*; common lilac, *Syringa vulgaris*, which must be pruned regularly and artistically; crab apples such as Katherine, and Japanese snowbell, *Styrax japonica*, are a few examples. None, however, will do a good job unless they are pruned so that they frame the entrance rather than appear as individual specimens. It is not a pruning job that can be completed when the initial planting is made, but must be done yearly. The client should be so informed.

There are also many plants that could be used in place of the espaliered *Euonymus japonicus*. *Vaccinium corymbosum*, high-bush blueberry, though deciduous; *Cotoneaster francheti*, *Franchet cotoneaster*, and

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2 1/4-in. pot plants

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Per 100 ..... 22.00

Per 1000 ..... 200.00

25 at 100 rate, 250 at 1000 rate.

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 2-yr., 12 to 18 ins. .... 25c each  
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Wayside Gardens

*C. divaricata*, spreading cotoneaster, even though they are a little shady, and *Ilex glabra*, inkberry, offer possibilities as substitutes.

It is well to repeat again that this type of doorway planting would not have been possible without large trees to frame the house so that a proportionate scale could be effected. Nor would it have been so interesting and inviting without a recessed doorway to accept the mountain laurel and flowering dogwood.

There are additional settings other than the one illustrated which readily accept trees by the doorway. Houses that are at an elevation well above the eye level of those who view them are willing recipients of trees by or near the entrance. The entrance tree again should be of lateral branches that arch over and above the doorway. These branches not only rest your eyes on the entrance, but prevent your interest from disappearing into the areas above and away from the focal point of the house. Sometimes a vine, carried above the door and at one side, may produce the same results. I wish that I had a photograph to illustrate this type of treatment, but I shall procure one and in some future issue you will see it.

Houses are many and varied. Each suggests a special treatment, and, the more individual the plantings, the more inviting the entrance and the greater the number of pleased and satisfied clients.

#### CONFIDENCE MAN REPORTED

Attention of nurserymen in Indiana and neighboring states is called to a confidence man posing as a nursery salesman who reportedly has been operating in that area. The man is about 50 years old, six feet tall and heavy set. He is said to be a clever salesman and is adept at drawing.

It is reported that the man generally operates by first producing some bona fide nursery orders and then reciting a "hard luck story" with the object of borrowing money. It is said further that he has been generally successful in obtaining money in this way. The man is wanted by police of several Indiana cities.

FIRE destroyed the Milwaukee Equipment Manufacturing Co. plant at South Milwaukee, Wis., recently, causing loss estimated by company officials at \$1,000,000. The firm manufactures power-driven rotary tillers for home garden and specialized commercial use.

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Colorado Blue Spruce, 3-2, 4 to 6 ins....	\$10.00	\$80.00	.....
Colorado Blue Spruce, 3-0, 2 to 4 ins....	4.00	20.00	\$180.00
White Pine, 2-3, 6 to 12 ins.....	15.00	.....	.....
Banks Pine, 3-0, 8 to 16 ins.....	6.00	25.00	.....
White Birch, 2-0, 8 to 16 ins.....	7.50	40.00	.....

### RIGA SCOTCH PINE

Best type for growing Christmas trees.

	Per 100	Per 1000	Per 1000 in 10,000	Per 1000 in 100,000
			lots	lots
Scotch Pine, 2-0, 3 1/2 to 8 ins....	\$6.00	\$25.00	\$23.50	\$22.00
Scotch Pine, 2-0, 2 to 3 1/2 ins....	4.00	16.00	15.00	14.00

Samples on request in digging season.

TERMS: Cash with order please; or 25 per cent deposit, balance before shipment. 25 at 100 rate, 250 at 1000 rate; all seedlings in multiples of 50, all transplants in multiples of 10.

Minimum order \$10.00. Packing at materials cost; charges billed when shipped.

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Pruned, compact, healthy green foliage, B&B, with exceptionally good balls. F.O.B. Boone, North Carolina. Truck or car lots, February and March.

15 to 18 ins.....	\$1.25 (retail value \$3.50 to \$4.50)
18 to 24 ins.....	1.65 (retail value 5.00 to 6.50)
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Above available from Bellville, Ohio, March and April.

15 to 18 ins.....	\$1.50
18 to 24 ins.....	2.00
24 to 30 ins.....	3.25

#### Pinus Resinosa (Red Pine)

Pruned, exceptionally fine, heavy specimens; wide, compact. About 5000. First digging from this block.

4 1/2 to 5 ft., B&B.....	\$5.50
Cornus Florida	
5 to 6 ft., B&B.....	\$3.50 (25% with fl. buds)
6 to 7 ft., B&B.....	4.50 (75% with fl. buds)
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8 to 9 ft., B&B.....	6.50 (100% with fl. buds)
9 to 10 ft., B&B.....	7.50 (100% with fl. buds)

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#### NOTES ON METASEQUOIA

[Continued from page 15]

Mr. Fischer, two of the 4-year-old specimens in the Hoyt Arboretum produced cones in 1952, the first reported fruiting occurrence in this country to our knowledge.

Reports from Washington, D. C.; Philadelphia, New York and Boston indicate that metasequoia is growing well in those areas and thus far the species appears to be hardy. Dr. Donald Wyman reports that one well-formed specimen in the Arnold Arboretum, near Boston, grew over four feet in one year. Dr. Henry T. Skinner, former curator of the Morris Arboretum, Philadelphia, and now director of the National Arboretum, Washington, D. C., writes that this species seems perfectly at home at Philadelphia, especially when planted in soil a little on the moist side. In the Morton Arboretum, near Lisle, Ill., metasequoia has not survived the cold winters, according to Director Clarence E. Godshalk. Farther south, in the Missouri Botanical Garden, at St. Louis, this species was not damaged by the severe winters of 1950-51 and 1951-52, so that George T. Moore, former director, felt that it might be considered hardy in that region. In the Glenmore Arboretum, in the Rocky mountains above Denver, Colo., a snow-covered specimen survived the unusually cold winter of 1950-51, according to Director Robert E. More.

#### Methods of Propagation

Propagation of metasequoia by cuttings has been found by many growers to be relatively easy. As an example, 3-inch greenwood cuttings were taken in August, 1951, at the Saratoga Horticultural Foundation and placed in the propagating greenhouse in a medium of spongerok, without bottom heat. These began to root in less than three weeks and were potted in the fifth week. In one year, these vigorous plants (in gallon containers) ranged from 30 to 40 inches in height. Hardwood cut-

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We will ship trees about April 7.

Prices are for Bed Run; approximate size in inches listed.

	100 trees	1000 trees
Colorado Blue Spruce 3-yr. S. (3-0), 2 to 4 ins. ....	\$ 4.00	\$20.00
(The seeds from which these trees were grown were hand-picked from blue trees in Colorado)		
Norway Spruce 3-yr. S. (3-0), 2 to 4 ins. ....	3.00	15.00
Mugho Pine 5-yr. T. (2-3), 5 to 10 ins. ....	11.00	55.00

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Each	Each
Per	Per
10	100

Cotoneaster Divaricata, B&B, landscape material. Fine, well-branched stock.  
3-yr., T., 18 to 24 ins. .... \$2.00 \$1.75  
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L.O., T., 15 to 18 ins. .... .35

Buddleia, 2-in. potted lining-out stock.  
Charming, lavender-pink... .20 .15  
Dubonnet, light lavender to violet ..... .30 .15  
Imperial Purple, very deep purple ..... .25 .20  
Red Velvet, velvety red.... .30 .15  
Royal Scarlet, best deep red ..... .25 .20  
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### EXTRA SPECIAL

Cotoneaster Acutifolia	Per 1000
18 to 24 ins., tpl., well-br....	\$220.00
2 to 3 ft., tpl., well-br....	350.00
Caragana Arborescens	
2 to 3 ft., 2-yr. sdgls....	42.00
18 to 24 ins., 2-yr. sdgls....	34.00
Chadwick's Buckthorn	
2 to 3 ft., tpl., well-br....	200.00
3 to 4 ft., tpl., well-br....	250.00
Russian Olive	
2 to 3 ft....	60.00

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tings, ranging in diameter from the size of a match to that of a pencil, were taken in February and left outdoors in a medium of three parts sand and one part peat. The slender cuttings were the first to root, and these were potted in June. The heavier cuttings were potted in August. For western conditions, we recommend propagating by greenwood cuttings at any time from June through August. Because of the popular demand, many nurseries in America now list metasequoia.

Because of the probable ultimate size of cultivated specimens of the dawn redwood, it is doubtful that the tree has a place in the average home garden. However, its fascinating history and potential educational value, coupled with the widespread popular interest in its unique qualities, make it a valuable exhibition subject. Now that it is readily available, it should be widely planted, preferably in groves, in public grounds and parks in all regions where it thrives.

#### FERTILIZER REPORT

The 1952 report on the inspection of commercial fertilizers sold in Connecticut has just been issued by the Connecticut agricultural experiment station, New Haven. Mixed fertilizers, which comprise the bulk of fertilizers used in Connecticut, were of good quality in 1952, it said.

Included in the report for the first time in 1952 are analyses of soil conditioners, which appeared on the market about a year ago. Designed to modify the structure of the soil, these materials are not fertilizers in the ordinary sense but, if sold in large lots, would come under the Connecticut law which includes all materials sold for soil amendment purposes. To date, all of these materials have been sold in small packages, and registration has not been required. However, so much public interest has been shown in these products that chemical analyses were made of 11 different brands.

The brands varied widely in composition, some containing as much as 87 per cent water and less than 9 per cent of total organic matter, while one brand was almost 100 per cent organic. Only one product bore definite fertilizer guaranties, and analyses showed it to be far below the guaranties for all three ingredients.

Copies of the bulletin, No. 563, are available on request to the Connecticut agricultural experiment station, P. O. Box 1106, New Haven, Conn.

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	100 to 300 Each	300 and up Each
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<i>Cotoneaster Apiculata</i> , 2-in. pots.....	.27	.25
<i>Euonymus Alatus Compactus</i> , 2-in. pots.....	.22	.19
<i>Euonymus Patens</i> , 2-in. pots.....	.17	.15
<i>Euonymus Yedoensis</i> , 1-yr., 6 to 12 ins.....	.15	.12
<i>Juniper, Communis, Swedish</i> , 2-in. pots.....	.20	.18
<i>Juniper, Communis, Swedish</i> , 3-yr., Bdr.....	.37	.35
<i>Thuja Occidentalis Elegantissima</i> , 3-yr., Bdr.....	.50	.45
<i>Thuja Occidentalis Nigra</i> , 3-yr., Bdr.....	.45	.40
<i>Thuja Occidentalis Pyramidalis</i> , 2-yr., Bdr.....	.45	.40
<i>Thuja Occidentalis Spiralis</i> , 3-yr., Bdr.....	.50	.45
<i>Thuja Occidentalis Wareana</i> , 3-yr., Bdr.....	.45	.40

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1 1/16-in. caliper. Many trees in  
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### SOUND NOMENCLATURE

[Continued from page 13]

It was not chance that had led Linnaeus to adopt the Latin language for botanical names. It was necessity, for at that time, even as today, Europe had many local languages and dialects and Latin was the only one sufficiently widespread to be considered universal. Botanists still adhere to it, not because it is the easiest language in the world, but because it is a dead language and so causes no nationalistic ill feelings. And the botanist finds it a comfort to pick up a journal otherwise written in Japanese characters, in Polish or any other language and still know that the names of the plants and the descriptions of the new species will be in Latin.

#### Naming of Cultivated Variants

But with the names of the cultivated variants it is different. Some horticulturists, perhaps to lend an aura of needless erudition to their work, named their selections in Latin. For the most part, however, they applied some name in their own vernacular. Although these names were sometimes changed when the materials were taken to another country, this is only what might be expected. Curiously enough, it is the cultivated variants named in Latin which seem to cause trouble, as far as the working plantsman is concerned.

A list of cultivated plants often contains a large series of varieties. Some of these are botanical varieties and, as such, may be quite variable; others are cultivated varieties and therefore usually are reasonably stable and constant, and they often are vegetatively propagated. In other words, the botanist and the plantsman are using the term "variety" in different senses, with the plantsman often lumping them together in his lists as if they were the same thing, and they are not.

#### Variability Within Species

The past decade or so has seen a revitalization of the study of botanical systematics. Instead of merely shuffling through piles of dried specimens, plant taxonomists are now studying populations of living plants as they occur in nature. The impact is just beginning to be felt in horticulture, but it will go far in modifying certain concepts and practices. I shall cite only a few examples.

The American beech is not often used as an ornamental tree, since it

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Hydrangea P.G.	Per 100	Per 1000
4 to 6 ins., 1-yr., C...	\$4.50	\$40.00
6 to 12 ins., 1-yr., C...	6.00	55.00
12 to 18 ins., 1-yr., C...	7.50	70.00

Spiraea Vanhouttei		
6 to 12 ins., C.....	3.50	30.00
9 to 12 ins., hedging...	4.50	40.00
12 to 18 ins., hedging...	6.50	60.00
18 to 24 ins., hedging...	8.50	80.00

Cornus Florida	Per 10	Per 100
2 to 3 ft., 2-yr., light br.	\$2.50	\$20.00
2 to 3 ft., 2-yr., well-br.	5.00	40.00

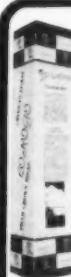
### NATIVE TREES AND EVERGREENS

Acer Rubrum, Acer Saccharum and Cercis Canadensis	Per 10	Per 100
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5 to 6 ft., well-br.....	6.00	55.00
6 to 8 ft., well-br.....	7.50	70.00

Rhododendron Maximum, Kalmia Latifolia, Ilex Opaca, Tsuga Canadensis	Per 100	Per 1000
3 to 6 ins., S.....	\$2.50	\$20.00
6 to 9 ins., S.....	3.50	30.00
9 to 12 ins., S.....	5.50	50.00
12 to 18 ins., S.....	7.00	65.00

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2-yr., 6 to 8 ins. ....	20c each
2-yr., 8 to 12 ins. ....	25c each

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is regarded as being somewhat difficult to establish. Recent investigations have indicated that it consists of three quite different races, with hybrid forms along the zones of contact. One of these is primarily southern and succeeds only in damp lowlands where the soil is definitely acid. The second type requires well-drained soils, usually of an upland type, but these must also be acid; it is widespread in the Appalachian and related regions. The third type is primarily northern, but is the only one of the three which demands a neutral or even alkaline soil for its survival. In brief, the botanical name *Fagus grandifolia* covers a series of different beeches with contrasting soil and climatic requirements, and to violate these in planting invites failure. Also, for beeches to be transplanted successfully, they should be moved when smaller than is customary and with a good root ball, which should be kept continually moist. Although work on this part of the problem is not complete, there is evidence that the beeches also require different root fungi, or mycorrhizae. Since the root hairs of beeches appear to be nonfunctional, these trees actually make most effective nutritional contact with the soil through the associated fungi, as do rhododendrons and pines.

In the sugar maple, as far as preference for soil types is concerned, the situation is perhaps still more complicated. A particular sugar maple cannot be planted in every soil type and be expected to succeed, although the species is found on soils of widely varied natures.

I have yet to pick up any standard text dealing with ornamental trees which tells the whole truth about the red maple. The discussion usually notes that this tree "turns brilliantly crimson in autumn." As a matter of fact, it should be recorded that there are races of red maple which, when grown in the same plots with those which do turn crimson, never turn anything but yellow. This is all the more important because these noncrimsoning races are widespread and likely to come into commerce from seed-grown stock. Any nurseryman who propagates *Acer rubrum* and then guarantees that his customer will be satisfied with the autumn color of the tree had better be certain that his seeds came from an area where the leaves of all the trees turn crimson.

#### Variability of Species

These few examples could be multiplied many times. But they in-

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dicate that we are learning that our species are much more variable than we had ever supposed and that some of this variability is of the sort which is or should be of vital concern to the nurseryman. A satisfied customer is perhaps the best advertisement in the world. Therefore, one can envision the time when nurserymen will be fully apprised of these and similar situations and thus be able to acquire the proper stock to assure success. As broadly defined today, many species occur over wide territories and under different climatic and soil conditions. However, a customer who buys only one or a few plants of a kind has every right to demand a reasonable expectancy of success. And the responsible nurseryman will satisfy this demand as well as he can. The solution lies in continued investigation of the natural variants within our species followed by a translation of this information into a usable nomenclature which will be of service to the nurseryman in specifying a desirable planting material for a certain site or effect under a given set of conditions.

### Testing Programs

Most plants are used in landscaping adjacent to buildings, either homes or other edifices. The recurrent argument between architects and nurserymen that a particular plant material grows out of scale too soon is frequently a valid one. The high cost of labor for the care and maintenance of gardens, together with the trend toward smaller home properties, has brought about something of a revolution in planting design. The smart nurseryman is not going to resist this trend. To be successful he must follow it, and doing so requires him to supply stock which will remain in scale for a reasonable length of time. This puts considerable pressure on nurserymen to produce and select special forms which fit the specifications of modern design. This, in turn, leads to the whole problem of testing, evaluating and reporting new materials.

It is poor business for a nurseryman to sell something to his customers, no matter how novel it may be, until he is reasonably certain that it will succeed. It is equally poor business for a nurseryman himself to invest in stock which is not adapted to his particular combination of climate and soil. Adequate trials of new material are essential, the trials to be either preintroduction or essentially simultaneous with it.

These trials should be conducted

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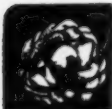
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under a wide range of soil and climatic conditions, and reporting of trials should contain clear information. The present custom of giving special recognition to new introductions which have been outstanding in the greatest number of testing stations has considerable merit, but this system tends to exclude from effective introduction those plants which succeed under special conditions. A plant may be superior in a certain region, even if it does poorly or even fails in all other regions; information about such a plant should be made available to nurserymen in regions where it is outstanding so that they can quickly build up a sufficient stock of it.

Any testing program ought to comb through existing materials to ascertain those which are best suited for certain regions and special conditions. For example, a planting plan may call for something having the general shape of the Irish yew, *Taxus baccata stricta*. Excellent as it is in favored situations, it is sometimes not realized by architects that the Irish yew may not be sufficiently hardy for a given location, that it does not take kindly to periodic dry spells and that it is not structurally "engineered" to stand under loads of clinging snow or ice, so that it might be unsuited to the place specified. What then can be substituted which will be both horticulturally and architecturally satisfactory? Potential substitutes are to be sought in other species of *taxus* and in such genera as *juniperus*, *thuja*, *ilex*, etc. This type of substitution is well-understood by most nurserymen, but to my knowledge there is no standard work now available wherein may be found an impartial rating of such vegetatively propagated substitute materials (clones) giving their general rate of growth, ultimate height and shape, as well as their soil and climatic tolerances, except in the most generalized and indefinite terms.

#### Considering Testing Programs

It is encouraging to note that nurserymen's organizations are seriously considering the establishment of testing programs to ascertain this type of vital information. This will go far in bringing to the attention of individual nurserymen excellent materials which may have been overlooked, at the same time keeping them thoroughly advised concerning the qualities of newly introduced materials. However, for such a program to be effective and of real service to nurserymen, it is necessary

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that the reporting be based on a sound system of nomenclature.

### **The New Code**

Anticipating the development of a system of testing and reporting on a large scale, a group of interested plantmen and botanists came together at the 1950 International Botanical Congress at Stockholm to discuss the associated nomenclature problems. There, during a 2-week period of almost constant sessions, a special committee arrived at a series of basic principles. In 1951, at London, the work was carried further at a joint session of the Stockholm committee and a cognate committee of the then forthcoming International Horticultural Congress. This 1951 session crystallized many problems and brought together a preliminary draft of a new international code of nomenclature for cultivated plants. This was subsequently modified after study, and its main points presented to the 1952 International Horticultural Congress, which voted approval of the general provisions, leaving the final draft to a special editorial committee. This last version is scheduled for publication in the proceedings of the 1952 congress and will then be generally available.

### **International Congress to Act**

It is to be noted that the forthcoming version of the code of nomenclature is essentially on trial until the next International Horticultural Congress, at which time it will probably be adopted, with such modifications as experience meanwhile demonstrates are desirable to produce greater effectiveness and ease of operation. As it stands today, the code is not exactly a brief document and a nurseryman may be a little bothered with some of its provisions which seem to have little application to his personal problems. A little charity and patience should be exercised here, for the code had to be designed to cover the entire field of cultivated plants, from trees to field crops, from botanical materials to multigeneric orchid hybrids, from often highly variable seed-propagated groups to vegetatively propagated individual plants (clones) and from chance mutant forms (sports) to the production of actual new species under rigidly controlled experimental conditions. The seedsman specializing in field crops will probably be as impatient with certain provisions as the nurseryman interested primarily in woody plants, the breeder of African violets or the selector of forest tree seeds, since

provisions had to be included not only for the application of names to newly produced materials, but also for the use of these names in trade lists, nursery catalogs and technical writings. Furthermore, the results of necessarily different modes of propagation had to be taken into consideration to enable precision in nomenclature of cultivated plants.

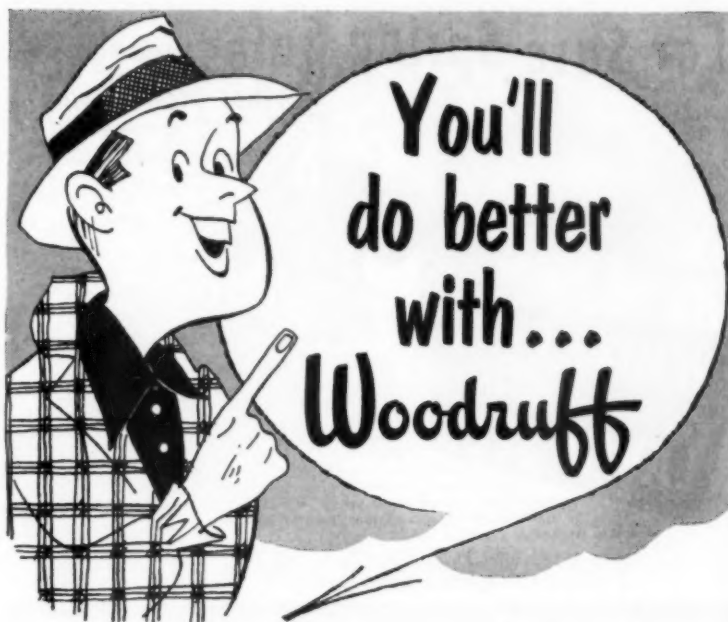
#### Code Not Coercive

It also is to be clearly understood that there is no element of coercion in the present code. It seeks only to be an instrument whereby plantsmen can ascertain methods and procedures of nomenclature which will be to their advantage. Earnest thought was devoted to provisions which would bring about a greater stability of the names of cultivated plants. It was recognized that horticulture today is international in scope, that there is a vast exchange of material between countries, and a need to keep the record straight without causing undue difficulties where language differences are involved. To this end, the present code advocates the establishment of a system of international registries to lighten the nomenclature burden on the individual plantsman.

Confusion was inevitable under the former system of nomenclature of cultivated plants, often with some plants having several different names in the trade and several plants having the same name. A carefully applied system of registration should resolve these sources of confusion.

In some respects, the present code is unique. It is the first such document to provide a means of resolving the chaos of names in large and complicated groups of cultivated plants without adding to the confusion or compounding error. Briefly stated, this consists of bringing together nomenclaturally sound and correct lists with adequate descriptions of all materials in individual groups known to be present in cultivation. This is no small undertaking, but the excellent work already done along this line in groups such as roses and rhododendrons indicates that it is not impossible. Furthermore, under the direct stimulus and provisions of the present code, even before formal publication, this type of work has already been undertaken in a further series of important horticultural groups with indications of a high measure of success.

One need not stress the advantages to be gained by the individual nurseryman when such lists become



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available, but, in resolving nomenclature difficulties, a method had to be devised which, at the same time, would not lead to hardship by bringing about a chain of name changes.

The code includes provisions whereby an individual with a new plant for introduction can name it. If some of the text of the code pertaining to this operation is a bit involved or legalistic, the nurseryman should remember that some passages of the code were designed primarily to set up regulations so that these lists of cultivated materials could be brought together on an international basis and yet be applicable in the various countries where language and customs of horticultural nomenclature differ. It was no easy task, and a large group of plantmen speaking more than a half-dozen different languages and representing a wide selection of horticultural interests wrestled mightily with the many problems involved. That they came to general agreement on the basic provisions of the new code indicates a recognition of the widespread need for such a document. Agreement was reached by testing each provision in the light of how it would affect the individual nurseryman or breeder dealing with named plant materials.

### Cultivated Plants Designated

So deeply were the framers of the present code convinced of the fundamental importance of cultivated plants, and especially of the materials which have arisen through the direct influence and guiding hand of man, that they have advocated that these plants receive a special designation. Matters of botanical interest are left primarily to the botanists, and the nomenclature of those plants representative of wild materials still is to be under botanical categories. Yet it was felt that the variants which have been produced or discovered under cultivation and which have been preserved by man because of their importance ought to be designated as "cultivars," to distinguish them from the wild "varieties" of the botanist which have chanced to come into cultivation.

It was not pride of craft alone which prompted this, but a series of practical reasons. Although botanists have made great strides in recent years to attain some sort of nomenclature stability, they are far from achieving it. It is inherent in botanical material that further investigations of a group on a world-wide basis are bound to result in nomenclature realignments which penetrate



to the level of the variety. Therefore, the names of these important variants, which are the basis of the bulk of the working stock of the plantsman, are sometimes misplaced by the classificatory shifts of the botanist. In brief, as "varieties," they come under the jurisdiction of the botanist and thus become subject to his nomenclatural tinkering. As "cultivars" they are outside the direct jurisdiction of the botanist and, therefore, are subject to the provisions of the code of nomenclature for cultivated plants.

#### "Variety" and "Cultivar"

It is generally agreed that the botanical "variety" potentially is a variable group and subject to all degrees of interpretation. On the other hand, the "cultivar" may be a single plant vegetatively propagated in one of several ways or, if seed-propagated, is held to fairly rigid standards by careful selection; in either case, it can be expected to come true to specifications. From the practical standpoint, therefore, it is much to the advantage of the plantsman to know whether he is dealing with a potentially variable botanical "variety" or with the implied stability and constancy to type of the "cultivar." Whether "cultivar" is the best choice of term for use in this instance is of no great importance and a matter which can be debated between now and the next international congress. But the principle of having some sort of special designation apart from the loose category of "variety" for these important cultivated plants is a thing which is debatable only on sentimental grounds. In these days of steadily rising unit costs of production and keen competition, the average nurseryman scarcely can afford the dubious luxury of propagating and caring for a block of material, only to discover some years later that it is so variable and of such poor conformity that only a portion of it meets established standards.

In horticulture, good names, properly applied, result in good business. It is beside the point that the buying public is rarely concerned about the correct names of the plants they purchase. The real point is that the nurseryman should be prepared to advise his clients on the exact performance of any material under a given set of conditions. He can do this only if he is certain of his stock. And reasonable certainty of stock can be maintained only when plant material is bought and sold under a stable system of nomenclature. It is this stability and precise use of names which the new code seeks to foster.

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### CALIFORNIANS PLAN PUBLICITY CAMPAIGN

Among matters approved at the midwinter meeting of the board of directors of the California Association of Nurserymen was the appointment of the Pacific Advertising Agency, of Oakland, to handle the association's publicity. Leo Ihle, of the Birchlane Farm, San Rafael, was chairman of the publicity committee, which recommended the firm. Two other organizations had also been under consideration.

No paid advertising is anticipated. The agency will prepare articles for television, radio and newspapers which will be primarily of interest to the home gardener.

It was reported at the meeting that the association's membership is at an all-time high, with a paid-up membership of 831. A membership booklet will be published listing all members by trade classification and indicating by code the amount of dues paid.

The midwinter meeting lasted well over 12 hours and for the first time in many years there was a 100 per cent attendance of the 20 directors.

### REDWOOD EMPIRE MEETING

The Redwood Empire chapter of the California Association of Nurserymen held its 107th business meeting March 10. The meeting was held at the Colony restaurant, Petaluma, and called to order by President Jim Egger.

Ernest Munson, chairman of the Arbor day activities in Marin county, reported that trees had been presented to 35 schools. Flowering peach, plum, sycamore, Chinese elm and modesto ash were the varieties given. A letter from the Redwood Empire chapter accompanied each donation, and an announcement appeared in the local paper telling of the presentation and listing the sponsoring nurseries. Jack Alverado, Pat Flynn and Hugh Wallace also worked on the Arbor day program.

Joe Badger reported a poor showing for Sonoma county in that only one tree had been presented there.

Harold Prickett, chapter director, told of the first meeting of delegates

to the directors' spring meeting. The purpose of the meeting, which included all the bay area chapters, was to study the agenda of the directors' meeting. The meeting was attended by the chapter director, president and one alternate and was held in St. Julien's, San Francisco.

Clyde Von Graffen reported on the Sonoma fair. He stated that any nurserymen interested could make an entry of bedding plants to be planted on the fairgrounds. The planting would be watered and maintained by the fair board. Fertilizing and pruning would be the responsibility of the exhibitor. Those interested were

Wally Leiser, Joe Badger and Paul Clark.

At the conclusion of the business meeting Wally Leiser introduced Dick Plath, who showed movies taken at the 1952 convention held on Catalina island. Those who attended the convention had a fine time reliving the fun-filled days.

Hugh Wallace, Sec'y.

### SAN JOAQUIN MEETING

An open discussion of the proposed state-wide trade promotion program highlighted the meeting of the California Association of Nurserymen's San Joaquin chapter held at the Basque hotel, Fresno, February 19.

Several persons suggested that the program be planned so that its cost could be known in advance with reasonable accuracy. A system of financing the program should be devised to take into account not only the initial costs but also the costs of

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the promotion in future years. It was agreed by several of the members that it might become difficult to obtain money for the venture in the future, and that the chapter should plan to use its surplus funds for sustaining it. A raise in dues sometime in the future was a possible method of obtaining money to supplement the initial allotment, the members agreed.

Several persons spoke up to the effect that the advertising media employed should work to encourage sales for the entire membership, not for just a few located in the larger metropolitan districts or in a specialized sector of the industry. It is the group effort for the benefit of the entire industry that is ultimately the most profitable, they said.

Two new members were voted into the chapter at this meeting: Vincent H. Centoni, Centoni's Nursery, Bakersfield, and Howard C. Everetts, San Bernardino, a fertilizer broker.

Guests at the February meeting were Mr. and Mrs. Harold Samuels and Mr. and Mrs. Wesley Conners, who came with Cliff Oliver, Fresno; Luther F. Thornburgh, Corcoran Nursery, Corcoran; Mr. and Mrs. Kenneth Seeley, Fresno, and Joan Sullivan, Sullivan's Nursery, Fresno. Ivan L. Stribling, Sec'y.

#### LANDSCAPE MAJOR OFFERED

Landscape management, a growing professional field, particularly in fast-growing, home-building California, has now been established as a 4-year major at the University of California college of agriculture, Davis, Calif. The new course of study is designed to prepare professionally-trained men and women for positions in California's \$150,000,000 ornamental horticulture industry, as well as for graduate study for advanced degrees in plant sciences. Robert B. Deering has been named head of the department.

Along with the fundamental sciences which are basic to plant studies, the landscape management curriculum will cover a broad field of other courses helpful in the student's preparation for a career. These include courses in planning the home grounds, landscape construction, plant materials for landscape use, general floriculture and principles and practices in the use of decorative plant materials.

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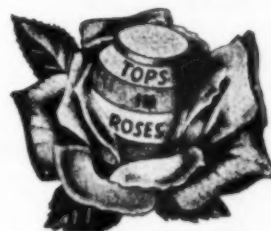
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and principles of speech to give him a well-rounded preparation for his business or professional career. The curriculum will also be tied into an extensive program carried on at Davis.

In the plans for departmental development are a new field headquarters, extensive outdoor growing areas, greenhouses, lathhouses, laboratories and workshops, controlled environmental rooms and storage facilities for flowers, bulbs and plants.

Mr. Deering pointed out that, considering the importance of the industry in California and the favorable climate for year-round study, a degree major fills a great need.

## NEW MINERAL CONDITIONER

A rock mineral soil conditioner which also contains basic plant foods has been developed by the Magma Corp., Chicago, and was recently described at a formal luncheon at Denver, Colo., held to introduce the new product. The luncheon was attended by educational leaders, agricultural and mining authorities and state, municipal and civic leaders.

The new material is called Magnite, and its mineral properties are iron, zinc, boron, molybdenum, copper, cobalt and manganese. It also contains nitrogen, phosphorus and potash as well as useful quantities of the secondary plant foods, calcium, sulphur and magnesium, in soluble form. Because it does not involve the expensive chemical processes needed for the production of the synthetic soil conditioners, it is expected by its manufacturer that it will cost less than these other products. The material will be mined, milled and packaged in Colorado, though the firm's general offices are at Chicago.

Another claim made for the new product was that it can be applied to the surface of the soil, allowing water to carry it to the subsoil level. It does not have to be dug into the soil when applied, it was said. The material can be mined from rock materials found in abandoned or marginal mines as well as active mines.

Speakers at the introductory luncheon were Gov. Dan Thornton, of Colorado, and Paul Swisher, commissioner of the Colorado department of agriculture.

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## PLANTS FOR CANADA

(Continued from page 14)

September and inserted in a mixture of one part sand and two parts peat moss. Cuttings of *Picea pungens* Montgomery gave good results when taken in early July with a short heel and inserted without removing bottom needles in a mixture of one part peat moss and 10 parts sand, with one inch of sand on top. *Picea pungens* bakeri also gave good results under this treatment, although the rooting percentage was somewhat lower. Koster blue spruce did not root favorably following this method and Mr. Teuscher preferred to propagate this plant by inarching the tips of lower branches of established trees on potted 2 to 3-year-old seedlings of *Picea pungens* or *P. abies* (excelsa). This procedure is carried out at the beginning of the growing season. Cuttings of the various dwarf varieties of *Picea abies* succeeded best when taken in the middle of June and placed in pure sand. Thuja and juniperus cuttings also gave distinctly superior results when taken in summer rather than in late fall.

Cuttings of two of the most dwarf forms of hemlock, *Tsuga canadensis*, variety *minuta* and variety *prostrata*, rooted when taken in early August using a medium of two parts peat and one part sand. However, Mr. Teuscher reported difficulty in rooting cuttings of the normal hemlock or of any of its tall-growing varieties.

*Prunus triloba floreplena* has proved unsatisfactory in Canada on common understock, which in the past had been explained as caused by lack of hardiness. The fact is, however, that the species and double flower variety are perfectly hardy when grown on their own roots. Softwood cuttings taken in late June and treated with auxins root readily; such rooted cuttings have to be wintered frost-free, since their growth continues better late in the fall.

For hedge plants, the following were recommended: *Potentilla fruticosa*, *parvifolia*, *Salix purpurea nana* and *Taxus canadensis stricta* for low hedges; *Cotoneaster lucida*, *Euonymus alatus compactus* and *Physocarpus intermedius microphyllus* for medium tall hedges; *Salix lucida*, *Tilia cordata* and *Viburnum prunifolium* for tall hedges. Mr. Teuscher's favorite hedge plant for Canadian conditions is a native hawthorn, *Crataegus rotundifolia*. The branches are thin and heavily armed with thorns and the leaves are small and thin textured. Even under heavy pruning, it forms a neat, unpenetrable hedge.

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## CHRYSANTHEMUMS

### HARDY CHRYSANTHEMUMS

	Per 100
*Bronze Cushion .....	\$4.00
*Golden Carpet, Yellow Cushion.....	5.00
*Pink Cushion .....	4.00
*Santa Claus, Red Cushion.....	4.00
*White Cushion .....	4.00

### TALLER TYPES

Acacia, single yellow.....	4.00
*Alconquin, double yellow.....	4.00
*Autumn Lights, bronze early.....	4.00
Bonfire, new red.....	4.00
Clara Curtis, single pink, early.....	4.00
Dahlilum, Dark red, early.....	5.00
*Dean Kay, early pink.....	4.00
Deanna, rose-pink.....	4.00
*Early Bronze, bronze pompon.....	4.00
*Ember, large orange.....	4.00
Hebe, large pink, Korean.....	4.00
*Irene, white pompon.....	4.00
Little Bob, bronze button.....	4.00
*Olive Longland, large apricot.....	4.00
*Curry, bronze pompon.....	4.00
*Polar Ice, large white.....	4.00
*Pygmy Gold, yellow pompon.....	4.00
Redflare, large red pompon.....	4.00
Red Witch, glowing Burgundy.....	5.00

These are field-rooted divisions, not cuttings, and will give utmost satisfaction for potting for spring resale or lining out.

\*These varieties in field clumps, \$15.00 per 100.

**ELKHART NURSERY CO.** Elkhart 2, Ind.

## A Novel New Chrysanthemum

**LADY ELGIN**  
Ball-shaped, incurved 2-in. blooms of bright coppery-bronze on 18-in. upright plants. The general effect is that of a greenhouse-grown "football" mum in miniature. Early September. Strong, 2-in. banded plants, \$2.75 per 10.

Complete list on request.  
**FLEMING'S FLOWER FIELDS**  
3100 Leighton Ave. Lincoln, Neb.

## OUTSTANDING GARDEN MUMS

We do not have all the varieties.

**JUST THOSE PROVEN VERY BEST.**

Send postal card for our list of proven best varieties, as Limelight, Ming, Firecracker, Bright Forecast, Cocktail, Lassie, Success, Lee Powell, Fascination, Jubilee, E. Hood and Carnival.

**FARM OF PASCHKE** North East, Pa.  
Better varieties specialists.

**HARDY CHRYSANTHEMUMS**, 100 for \$4.50.

10 Favorite Varieties in

10 Different Colors.

Will bloom this Fall.

**W. S. YOE NURSERIES**  
Lake St. Madison, O.

## DAISIES

### SHASTA DAISIES

**MARK RIEGEL** — Hardy, prolific and beautiful. This giant 4-in., semidouble daisy has outstanding qualities. Doz., \$4.00; \*90, \$20.00.

**STONE MOUNTAIN**—This large, wide-petaled daisy has proved the hardest heat and drought-resistant daisy we have ever grown. Doz., \$5.00; 100, \$30.00.

**MAYFIELD GIANT**—An old standard. Doz., \$2.00; 100, \$8.00.

50 at 100 rate.

**RIEDEL PLANT CO.** Experiment, Ga.

**SHASTA DAISY—EARLY BOUQUET**  
Earliest of all. Grown outside for Mothers' day. Cut and nursery sales. Rooted div., 100, \$8.00.

**PRAIRIE SOUTHWEST FLORETUM**  
Fall River, Kan.

Turn Stock into Dollars  
by Listing It in the Classified Ads  
of the American Nurseryman.

## EVERGREENS

### SEEDLINGS FOR SPRING

	Per 100	Per 1000
Scotch Pine, 2-yr., 2 to 4 ins. ....	\$2.00	\$10.00
Scotch Pine, 2-yr., 4 to 6 ins. ....	4.00	20.00
Scotch Pine (Riga),		
2-yr., 2 to 4 ins. ....	3.00	15.00
Austrian Pine, 2-yr., 3 to 6 ins. ....	4.00	20.00
American Red Pine,		
2-yr., 2 to 5 ins. ....	4.00	20.00
Mugho Pine (Dwarf), 2-yr.,		
2 to 4 ins. ....	5.00	25.00
Ponderosa Pine, 2 yr., 3 to 8 ins. ....	3.00	15.00
Ponderosa Pine, 4-yr., 8 to 12 ins. ....	5.00	25.00
Red Spruce, 2-yr., 2 to 6 ins. ....	5.00	25.00

### TRANSPLANTS

Scotch Pine, 2-1, 3 to 5 ins. .... 6.00 30.00

Cash or 25 per cent deposit with order.

Balance C.O.D. 5 per cent discount on quantities of 25,000.

**SAM DIBLE NURSERY**  
Sheloceta, Pa.

### LINING-OUT EVERGREENS

	Each—Per
Potted Evergreens	100 1000
Dk. Green Bakeri Arborvitae.....	\$0.18 \$0.14
Pyramid Arborvitae.....	20 16 1/2
Woodward Globe Arborvitae.....	20 16 1/2
Biota Aurea Nana.....	20 16
Juniperus Hetzi Glauca.....	22 1/2 18 1/2
Taxus Media (2-yr.).....	25 20

1-yr. Field-Grown

Dk. Green Bakeri Arborvitae..... 20 17 1/2

Pyramid Arborvitae..... 20 17 1/2

Woodward Globe Arborvitae..... 20 17 1/2

**B&B EVERGREENS** Each

Juniperus Hetzi Glauca..... \$2.00

Juniperus Pfitzeriana..... 3.00

Juniperus Virginiana Glauca..... 2.00

Terms: Cash with order—Free packing.

300 plants at 1000 rate.

**VOGE NURSERY**  
New Lebanon, O.

**JUNIPER GRAFTS**

We have a surplus of 2000 beautiful Virginiana Glauca grafts on Virginiana understock. Price, 40c each. Terms: One-fourth cash and balance before shipping date, plus

freight charges & cost. All cash with order carries free boxing. Better hurry; this is a good buy.

**T. C. CRUME NURSERY & LANDSCAPING CO.**  
Highway 42 Florence, Ky.

**LINING-OUT LIST**  
**PRICES SUBJECT TO CHANGE**  
**WITHOUT NOTICE.**

ALL POTTED LINERS ON THIS LIST ARE PRICED FOR SHIPMENT IN PAPER POTS OR CUPS. THOSE WHO PREFER THE ORDINARY METHOD OF PACKING, OMITTING THIS ADDED PROTECTION, MAY DEDUCT 1c PER PLANT.

The 1000 rate applies on all orders; therefore, please order in multiples of 25 or more. EACH

BIOTA AUREA NANA BERCKMANS	5 to 10-in. liners.....	\$0.18
*2 1/2-in. pots.....		.18
BIOTA BAKERI	2 1/2-in. pots.....	.14
2 1/2-in. pots.....		.15
BIOTA BONITA	*2 1/2-in. pots.....	.16
*2 1/2-in. pots.....		.16
BIOTA EXCELSA	*2 1/2-in. pots.....	.18
*2 1/2-in. pots.....		.18
BIOTA SIBYLI	*2 1/2-in. pots.....	.18
*2 1/2-in. pots.....		.20
CEDRUS DEODRATA	4 to 6-in. seedlings, 2-yr.....	.05
6 to 8-in. seedlings, 2-yr.....		.07
JUNIPERUS CHINENSIS FORTUNEI	*2 1/2-in. pots.....	.24
JUNIPERUS COMMUNIS KIYONOI	*2 1/2-in. pots.....	.20
JUNIPERUS GLAUCA HETZI	*2 1/2-in. pots.....	.18
*2 1/2-in. pots.....		.20
JUNIPERUS HIBERNICA FASTIGIATA	*2 1/2-in. pots.....	.16
JUNIPERUS VIRGINIANA KETELEERI	*2 1/2-in. pots.....	.25
TAXUS CUSPIDATA	*2 1/2-in. pots.....	.15
*2 1/2-in. pots.....		.17
THUJA OCCIDENTALIS PYRAMIDALIS	2 1/2-in. pots.....	.16
ABELIA EDWARD GOUCHER	2-in. pots.....	.14
2 1/2-in. pots.....		.16
ABELIA GRACILIFLORA	2 1/2-in. pots.....	.18
2 1/2-in. pots.....		.14
2 1/2-in. pots.....		.16
(Flats—175 rooted cuttings—		
\$17.50 per Flat.)		
BUXUS JAPONICA	2 1/2-in. pots.....	.14
3 1/2-in. pots.....		.16
BUXUS SEMPERVIRENS	Rooted cuttings.....	.05
4 to 6 ins., TT, bed-grown.....		.08
6 to 8 ins., TT, bed-grown.....		.10
1 1/2 x 2 1/2-in. Vita-Bands.....		.12
2 x 2 1/2-in. Vita-Bands.....		.14
BUXUS SUFFRUTICOSA	Rooted cuttings.....	.07
4 to 6 ins., TT, bed-grown.....		.10
1 1/2 x 2 1/2-in. Vita-Bands.....		.12
2 x 2 1/2-in. Vita-Bands.....		.14
CAMELLIA SASANQUA MAIDEN'S	2 1/2-in. pots.....	.10
BLUSH	3 1/2-in. pots.....	.12
5-in. pots.....		.30
CAMELLIA SASANQUA	MINE-NO-YUKI.....	.10
2 1/2-in. pots.....		.10
CAMELLIA SASANQUA ROSEA	2 1/2-in. pots.....	.10
2 1/2-in. pots.....		.12
ELAEAGNUS FRUITLANDI	2 1/2-in. pots.....	.19
*2 1/2-in. pots.....		.20
EUONYMUS PATENS SIEBOLDIANUS,	Large 1.....	
1 1/2 x 2 1/2-in. Vita-Bands.....		.11
EUONYMUS PATENS SIEBOLDIANUS,	Small Leaf.....	.12
1 1/2 x 2 1/2-in. Vita-Bands.....		.12
(Flats—130 rooted cuttings—		
\$10.40 per Flat.)		
GARDENIA FORTUNEI	2 1/2-in. pots.....	.12
(Flats—130 rooted cuttings—		
\$10.40 per Flat.)		
ILEX CRENATA CONVEXA BULLATA	2 1/2-in. pots.....	.19
2 1/2-in. pots.....		.20
3-in. pots, extra-heavy.....		.25
ILEX CRENATA ROTUNDIFOLIA	2 1/2-in. pots.....	.18
2 1/2-in. pots.....		.19
ILICUM ANISATUM	*2 1/2-in. pots.....	.13
JASMINUM FLORIDUM	2 1/2-in. pots.....	.13
(Flats—175 rooted cuttings—		
\$10.50 per Flat.)		
LAUROCERASUS CAROLINIANA	2 1/2-in. pots.....	.14
LIGUSTRUM JAPONICUM	2 to 4-in. seedlings.....	.01
4 to 6-in. seedlings.....		.01 1/2
LIGUSTRUM LUCIDUM COMPACTUM	2 1/2-in. pots.....	.17
2 1/2-in. pots.....		.18
LONICERA FLAMING BEAUTY	2 1/2-in. pots.....	.15
MAGNOLIA GRANDIFLORA	3 to 4-in. seedlings.....	.04
4 to 6-in. seedlings.....		.06
2 1/2-in. pots.....		.13
2 1/2-in. pots.....		.14
MAGNOLIA SOULANGEANA NIGRA	*2 1/2-in. pots.....	.26
3-in. pots.....		.28 1/2
3 1/2-in. pots.....		.31

(Continued in next column)

(Continued from previous column)

NANDINA DOMESTICA	Each	
3 to 6-in. seedlings.....		.06
2-in. pots.....		.09
2 1/2-in. pots.....		.10
*2 1/2-in. pots.....		.12
PYRACANTHA BELLI	2 1/2-in. pots.....	.16
PYRACANTHA YUNNANENSIS	*2 1/2-in. pots.....	.16
VIBURNUM TINUS	2 1/2-in. pots.....	.14
2 1/2-in. pots.....		.16
SPECIAL NOTICE: Items marked by asterisk (*) delivery Spring, 1953. All items not so marked ready for shipment now or later to suit customers' requirements.		
T. G. OWEN & SON, INC.		
Columbus, Miss.		
FIELD-GROWN EVERGREENS		
Note—Graded according to the American standards for nursery stock.		
*Special prices on larger quantities.		
	Each	Each
	Per 10	Per 100
ABIES CONCOLOR	6 to 9 ins., R. P.....	\$0.15
4 to 6 ins., R. P.....		.07
JUNIPERUS ADMIRABILIS	12 to 15 ins., TTT.....	.70
9 to 12 ins., TTT.....		.60
6 to 9 ins., TTT.....		.55
JUNIPERUS PETRAEUS	12 to 15 ins., TTT.....	.70
9 to 12 ins., TTT.....		.60
6 to 9 ins., TTT.....		.55
JUNIPERUS SABINA (Savin)	15 to 18 ins., TTT.....	1.00
12 to 15 ins., TTT.....		.80
9 to 12 ins., TTT.....		.65
JUNIPERUS VIRGINIANA	(Red Cedar)	
12 to 18 ins., R. P.....		.20
9 to 12 ins., R. P.....		.15
6 to 9 ins., R. P.....		.08
4 to 6 ins., R. P.....		.05
PICEA CANADENSIS ALBA	(White Spruce)	
12 to 15 ins., TTT.....		.50
9 to 12 ins., TTT.....		.35
6 to 9 ins., R. P.....		.08
4 to 6 ins., R. P.....		.05
PICEA EXCELSA (Norway Spruce)	12 to 15 ins., TTT.....	.60
9 to 12 ins., TTT.....		.45
6 to 9 ins., TTT.....		.35
4 to 6 ins., R. P.....		.08
4 to 6 ins., R. P.....		.05
PINUS BANKSIANA (Jack Pine)	18 to 24 ins., R. P.....	.20
12 to 15 ins., R. P.....		.15
9 to 12 ins., R. P.....		.10
PINUS EDULIS (Nut Pine)	*6 to 9 ins., R. P.....	.15
*4 to 6 ins., R. P.....		.10
PINUS NIGRA (Austrian Pine)	*12 to 15 ins., R. P.....	.35
*9 to 12 ins., R. P.....		.25
*6 to 9 ins., R. P.....		.15
4 to 6 ins., R. P.....		.08
PINUS PONDEROSA	(Bull or Western Yellow)	
*12 to 15 ins., R. P.....		.25
*9 to 12 ins., R. P.....		.15
*6 to 9 ins., R. P.....		.10
4 to 6 ins., R. P.....		.05
PINUS STROBUS	(Northern White Pine)	
9 to 12 ins., R. P.....		.15
6 to 9 ins., R. P.....		.10
4 to 6 ins., R. P.....		.05
PINUS SYLVESTRIS (Scotch Pine)	*12 to 15 ins., R. P.....	.20
*9 to 12 ins., R. P.....		.15
*6 to 9 ins., R. P.....		.10
4 to 6 ins., R. P.....		.05
THUJA OCCIDENTALIS	(American Arborvitae)	
*9 to 12 ins., R. P.....		.09
*6 to 9 ins., R. P.....		.07
*4 to 6 ins., R. P.....		.05
THUJA OCCIDENTALIS PYRAMIDALIS	(Pyramidal Arborvitae)	
15 to 18 ins., TTT.....		.90
THUJA OCCIDENTALIS	WOODWARDI (Globe)	
*9 to 12 ins., R. P.....		.70
THUJA ORIENTALIS	(Oriental Arborvitae)	
12 to 15 ins., R. P.....		.15
9 to 12 ins., R. P.....		.10
6 to 9 ins., R. P.....		.07
Orders accepted according to our regular terms and conditions.		
PLUMFIELD NURSERIES, INC.		
Fremont, Neb.		
EVERGREENS		
ROOTED CUTTINGS		
For spring delivery.		
	Per 100	
Juniperus Chinensis Columnaris.....		\$17.50
Juniperus Chinensis Pfitteriana.....		12.50
Juniperus Chinensis Armstrongii.....		12.50
Juniperus Sabina Tamariscifolia.....		15.00
Juniperus Virginiana Glauca.....		17.50
Juniperus Chinensis Torulosa.....		20.00
Thuja Orientalis Aurea Nana.....		12.50
Thuja Orientalis Brevifolia.....		15.00
Thuja Orientalis Bonita.....		12.50
Thuja Orientalis Bakeri.....		12.50
Thuja Orientalis Pyramidalis.....		12.50
SYLMAR NURSERIES		
P. O. Box 552 San Fernando, Calif.		

APRIL 15, 1953

65

**EVERGREENS**  
**CONIFEROUS**

	1 to 10	10 to 50 and	50 up
	Each	Each	Each
Arborvitae, American,	2 to 3 ft.....	\$ 2.50	\$ 2.25
Arborvitae, American,	3 to 4 ft.....	3.50	3.25
Arborvitae, American	Pyramidal,		
24 to 30 ins.....		2.50	2.25
30 to 36 ins.....		3.25	3.00
3 to 4 ft.....		4.25	4.00
Arborvitae, Biota Orientalis	Bonita, 18 to 24 ins.....	2.75	2.50
Fir, Balsam, Douglas and	Nordman,		
2 to 3 ft.....		3.50	3.25
3 to 4 ft.....		4.50	4.25
4 to 5 ft.....		6.50	6.25
Juniper, Andorra and	Hetzi Glauca,		
15 to 18 ins.....		2.75	2.50
18 to 24 ins.....		3.25	3.00
24 to 30 ins.....		3.75	3.50
30 to 36 ins.....		4.50	4.25
Juniper, Pfitzer,			
15 to 18 ins.....		2.75	2.50
18 to 24 ins.....		3.25	3.00
24 to 30 ins.....		4.25	4.00
30 to 36 ins.....		5.25	5.00
36 to 42 ins.....		7.50	7.25
42 to 48 ins.....		10.00	9.75
4 to 5 ft.....		26.00	25.00
Taxus Hickel, 15 to 18 ins.		3.00	2.75
18 to 24 ins.....		3.75	3.50
24 to 30 ins.....		4.75	4.50
30 to 36 ins.....		6.25	6.00
36 to 42 ins.....		7.50	7.25
42 to 48 ins.....		11.00	10.00
BROAD-LEAVED			
Per 10 Per 100			
BOXWOOD, Sempervirens,			
Trans., 8 to 10 ins., puddled.....		\$ 4.50	\$40.00
Trans., 10 to 12 ins., puddled.....		4.50	40.00
Trans., 12 to 15 ins., puddled.....		8.50	80.00
Boxwood, Suffruticosa (Dwarf),			
Trans., 4 to 6 ins., puddled.....		3.00	25.00
Trans., 6 to 8 ins., puddled.....		4.50	40.00
Trans., 8 to 10 ins., puddled.....		7.50	65.00
Trans., 10 to 12 ins., puddled.....		10.00	90.00
Barberry, Verruculosa, 12 to 15 ins.....		\$2.25 ea.	
Barberry, Verruculosa, 15 to 18 ins.....		\$2.75 ea.	
NOTE: We can furnish truckload delivery service at nominal delivery cost.			
WAYNESBORO NURSERIES			
Waynesboro, Va.			
EVERGREEN ROOTED CUTTINGS			
Each—Per 100 Per 1000			
3000 Arborvitae, American	(dark green),		
3 to 6 ins.....		\$0.09	\$0.08
3000 Arborvitae Elegantisima	3 to 6 ins.....	.09	.08
3000 Arborvitae, Globe Woodward	4 to 6 ins.....	.09	.08
5000 Arborvitae, Pyramidal	3 to 5 ins.....	.08	.07
5 to 10 ins.....		.10	.09
1000 Arborvitae, Siberian	3 to 6 ins.....	.09	.08
4000 Juniper, Andorra	3 to 5 ins.....	.09	.08
5 to 10 ins.....		.10	.09
3000 Juniper, Chinese Pfitzer	3 to 5 ins.....	.10	.09
5 to 8 ins.....		.12	.11
1000 Juniperus Golden Plumos	4 to 5 ins.....	.09	.08
5 to 8 ins.....		.10	.09
3000 Juniper, Irish	3 to 5 ins.....	.09	.08
5 to 10 ins.....		.10	.09
5000 Juniperus Excelsa Stricta	3 to 5 ins.....	.09	.08
5 to 8 ins.....		.10	.09
5000 Juniperus Hetzi	4 to 5 ins.....	.09	.08
5 to 8 ins.....		.10	.09
5000 Taxus Cuspidata	4 to 6 ins.....	.09	.08
6 to 10 ins.....		.10	.09
3000 Taxus Hickel	4 to 6 ins.....	.09	.08
6 to 10 ins.....		.10	.09
We also have the above in 1 to 2-year field-grown, 2 per cent discount and free packing for cash with order. Write or come to see us. (One mile west of Rootstown) on Route 15.			
ROOTSTOWN GARDEN AND GREENHOUSE			
R. D. No. 3 Ravenna, O.			
PICEA OMORICA PANCIC			
In their habitat the slender trunks reach a height of 100 to 130 ft. and bear relatively short branches. Their thick crown is almost column-shaped; the needles are flat like fir.			
The Picea Omorika is the decorative tree par excellence of high architectural effect, because of its crown's descending to the soil with down-hanging twigs, the ends of which set themselves upright in soft curves. The upper branches are adorned with the delicate cones in various hues which form an exceedingly nice contrast with the dark green and silver-gray needles.			
This tree is recommended for ornamental purposes and as a park tree. It is absolutely frost hardy. And it is not susceptible to being poisoned by smoke.			
GIBBALT (LEWIS) NURSERY			
R. D. 1 Birdsboro, Pa.			



## EVERGREENS—Continued

## ROOTED CUTTINGS

	Each	Per 100
Gold Plume Cypress, 4 to 6 ins.	.....	\$0.09
Euonymus Coloratus, 4 to 6 ins.	.....	.09
Euonymus Vegetus, 4 to 6 ins.	.....	.09
Juniper, Andorra, 4 to 6 ins.	.....	.09
Taxus Cuspidata, 4 to 6 ins.	.....	.09
Taxus Hicksi, 4 to 6 ins.	.....	.10

## LINING-OUT STOCK

Euonymus Vegetus, 1-yr., T., 6 to 8 ins.	.....	.16
Juniper, Andorra, 1-yr., T., 4 to 6 ins.	.....	.13
Juniper, Irish, 1-yr., T., 4 to 6 ins.	.....	.20
Juniperus Glauca Hetzi, 1-yr., T., 6 to 8 ins.	.....	.20
Juniperus Pfitzeriana, 1-yr., T., 4 to 6 ins.	.....	.25
Juniperus Prostrata, 1-yr., T., 4 to 6 ins.	.....	.20
Taxus Andersoni, 1-yr., T., 4 to 6 ins.	.....	.18
Taxus Capitata, 1-yr., T., 4 to 6 ins.	.....	.18

(Cuttings)	.....	.18
Taxus Cuspidata, 1-yr., T., 6 to 8 ins.	.....	.18
Taxus Hicksi, 1-yr., T., 4 to 6 ins.	.....	.18
Thuja Elegans, 1-yr., T., 4 to 6 ins.	.....	.13
Thuja Ellwangeriana, 1-yr., T., 4 to 6 ins.	.....	.16
Thuja Nigra, 1-yr., T., 4 to 6 ins.	.....	.16
Thuja Occidentalis, 3-yr., TT.	.....	.33
Thuja Occidentalis Wareana, 1-yr., T., 4 to 6 ins.	.....	.16
Thuja Occidentalis Woodwardi, 1-yr., T., 4 to 6 ins.	.....	.13
Thuja Vervaeana, 1-yr., T., 4 to 6 ins.	.....	.16
Thuja Vervaeana Aurea, 1-yr., T., 4 to 6 ins.	.....	.16

Japanese Beetle Certification.  
CRYSTAL LAKE EVERGREEN NURSERY  
R. D. No. 4  
Slippery Rock, Pa.

## LINING-OUT STOCK

2/0 Austrian Pine, 100	1000	10,000
3 to 6 in.	\$3.00	\$20.00 \$18.75
2/0 Scotch Pine, Certified	.....	.....
Riga, 3 to 6 in.	3.50	25.00 22.50
2/0 Scotch Pine, Dark Gr.	.....	.....
Christmas Tree Strain,	.....	.....
3 to 8 in.	3.00	20.00 18.75

2/0 American Arborvitae, 100	1000	.....
2 to 4 in.	\$ 3.00	\$25.00
2/0 American Pyramid Arborvitae, 2 to 4 in.	.....	3.50 30.00
2/0 Ware Arborvitae, 2 to 4 in.	.....	3.50 30.00
2/1 Balsam Fir, 2 to 6 in.	.....	4.00 30.00
3/0 Austrian Pine, 4 to 10 in.	.....	4.50 30.00
2/0 Jack Pine, 3 to 6 in.	.....	3.00 18.00
2/0 Mugho Pine, 2 to 4 in.	.....	3.50 25.00
2/1 Mugho Pine, 2 to 4 in.	.....	5.00 45.00
3/0 Mugho Pine, 3 to 8 in.	.....	4.00 35.00
2/2 Mugho Pine, 4 to 8 in.	.....	10.00 90.00
2/0 Bk. Hills Spruce, 2 to 4 in.	.....	3.00 20.00
2/1 Bk. Hills Spruce, 2 to 4 in.	.....	5.00 35.00
2/0 Colo. Blue Spruce, 2 to 4 in.	.....	3.00 25.00
2/1 Colo. Blue Spruce, 2 to 4 in.	.....	5.00 45.00
2/0 Engelmann Spruce, 2 to 4 in.	.....	3.00 25.00
2/0 Norway Spruce, 2 to 6 in.	.....	3.50 22.50
2/1 Norway Spruce, 3 to 6 in.	.....	5.00 45.00
2/2 Norway Spruce, 4 to 8 in.	.....	9.00 80.00
3/0 Norway Spruce, 4 to 8 in.	.....	4.00 35.00
2/1 White Spruce, 3 to 6 in.	.....	4.00 35.00

2% discount for cash with order.

JOHN G. ZELENSKA  
R. 2, Box 291 Grand Haven, Mich.

## EVERGREEN LINERS, POT-GROWN

## IMMEDIATE DELIVERY

	Per 100
Calluna Vulgaris, Cuprea and Alba, out of 3-in. pots.	\$20.00
Hex Aquifolium (Hardy English Holly), out of 3-in. pots, 6 ins. tall.	60.00
Hex Cornuta Burfordi, 3-in. pots, 6 ins. tall.	20.00
Hex Crenata Bullata, out of 3-in. pots	.....
1950 Cuttings, 8 to 10 ins.	35.00
1951 Cuttings, 6 ins.	20.00
Plant Bands, 1952 Cuttings.	15.00

Hex Opaca (Named varieties from the outstanding collections in the U.S.A.)

1950—Cuttings out of 3-in. pots, 8 to 12 ins., sturdy.

1951—Cuttings out of 3-in. pots, 6 ins.

1952—Cuttings out of 3-in. pots, 4 ins.

Franklinia Alatomah, R.C.

\$17.50 per 100 (Minimum Order 25)

Taxus brevifolia, out of 3-in. pots, 6 ins.

Taxus Capitata, out of 3-in. pots, 6 to 9 in.

Taxus Cuspidata, out of 3-in. pots, 6 ins.

Taxus Media Hicksi, out of 3-in. pots, 6 ins.

LOUIS DANK

1170 Broadway New York 1, N. Y.

Minimum order \$10.00—10 of a variety.

## SPECIAL

## FIELD-GROWN EVERGREEN LINERS

## IRISH JUNIPER LINERS, 2-YR. PLANTS

Each Per 100 Per 1000

15 to 18 ins. \$0.12 \$10.00

No packing charge. 300 or more at 1000 rate.

## NAUGHER NURSERY

Chase, Ala.

## JUNIPERUS VIRGINIANA GLAUCA

We have a surplus of Juniperus Virginiana

Glaucia, 3 1/2 to 4 ft. tall, not sheared, 500 or

more, balled and burlapped, at \$2.25 each.

This is a real buy.

T. C. CRUME NURSERY

& LANDSCAPING CO.

Florence, Ky. Phone: Florence 233

ROOTED CUTTINGS,  
1-YR. TRANSPLANTS AND LINERS

	Per 100
Globe Arborvitae, 4 to 5 ins.	\$ 8.00
Euonymus Vegetus, 2-in. pots.	11.00
Baltic Ivy, 2-in. pots.	11.00
Juniper, Andorra Plumosa, 5 to 6 ins.	12.00
Juniper, Andorra Stricta, 5 to 6 ins.	12.00
Juniperus Hetzi Glauca, 6 to 8 ins.	10.00
Retinospora, 7 to 8 ins.	8.00
Retinospora Golden, 6 to 7 ins.	9.00
Taxus Browni, 4 to 5 ins.	8.00
Taxus Cuspidata, 6 to 10 ins.	8.00
Taxus Hicksi, 6 to 8 ins.	8.00

	Per 100
Juniper, Andorra Plumosa, 7 to 8 ins.	15.00
Juniper, Andorra Stricta, 7 to 8 ins.	15.00
Juniperus Hetzi Glauca, 9 to 10 ins.	15.00
Taxus Browni, 6 to 7 ins.	16.00
Taxus Cuspidata, 9 to 10 ins.	15.00
Taxus Media Hicksi, 8 to 10 ins.	16.00

## LINERS

	Each	Per 100
Globe Arborvitae, 8 to 9 ins.	.....	\$0.35
Taxus Cuspidata, 10 to 12 ins.	.....	.45
Taxus Hicksi, 10 to 12 ins.	.....	.40

## LANDSCAPE &amp; TREE SERVICE

Mtd. R. 4 OH CHY. Pa.

## ROOTED CUTTINGS

	Well-rooted.	Per 100	Per 1000
Arborvitae, Dark Green American, 6 to 10 ins.	.....	\$ 9.00	\$80.00
Arborvitae, Globe, 4 to 8 ins.	.....	9.00	80.00
Arborvitae, Pyramidal, 6 to 10 ins.	.....	9.00	80.00
Arborvitae, Siberian, 6 to 10 ins.	.....	9.00	80.00
Arborvitae, Spiral, 6 to 10 ins.	.....	9.00	80.00
Juniper, Andorra, 6 to 10 ins.	.....	10.00	90.00
Juniper, Hetzi (Blue), 6 to 10 ins.	.....	9.00	80.00
Juniper, Pfitzer, 6 to 10 ins.	.....	9.00	80.00
Juniper, Pfitzer, 1-yr.	.....	15.00	.....
2 1/2-in. pots	.....	9.00	80.00
Juniper, Sabina, 6 to 10 ins.	.....	9.00	80.00
Juniper, Von Ehron, 6 to 10 ins.	.....	9.00	80.00
Taxus Cuspidata, 6 to 10 ins.	.....	9.00	80.00
Taxus Cuspidata, 1-yr.	.....	16.00	.....
2 1/2-in. pots	.....	10.00	90.00
Taxus Hicksi, 6 to 10 ins.	.....	9.00	80.00
4 to 6 ins.	.....	16.00	.....
1-yr., 2 1/2-in. pots.	.....	16.00	.....

Cash with order. Packing free. Shipping

May 1 to June 5. Please specify date.

## DE WINTER'S NURSERY

R. 1 Grandville, Mich.

## EVERGREEN LINERS AND CUTTINGS

## POT-GROWN AND TRANSPLANTS

Each—Per 100 Per 1000

Arborvitae, Pyramid, 1-yr. pots. \$0.20 \$0.18

## HEAVY-ROOTED CUTTINGS

From flats, rooted outside in lath house.

Delivery now.

Each—Per 100 Per 1000

Arborvitae, American \$0.10 \$0.09

Arborvitae, Globe Woodward, .10 .09

Euonymus patens .06 .05

Taxus hatfieldi .11 .10

Taxus media Hicksi .11 .10

## HEAVY-ROOTED CUTTINGS

JUNE 15 DELIVERY FROM LATH HOUSE

Each—Per 100 Per 1000

Arborvitae elegantissima \$0.10 \$0.09

Arborvitae, Pyramid .10 .09

Juniperus hetzi glauca .11 .10

Juniper, Swedish .10 .09

Taxus cuspidata .11 .10

Taxus intermedia .11 .10

2 per cent discount and free packing for

cash with order.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tip City, O.

## GOLDEN GOOSE

## LINING-OUT STOCK FROM POTS.

All quotations are from 2 1/2-in. pots, 1 and

2-yr. old. Grown in open beds under field

conditions. Ready for immediate delivery or

for reservation.

Each

ILEX CRENATA

(Japanese Holly), 6 to 8 ins. \$0.16

ILEX CRENATA BULLATA.

4 to 6 ins. .14

6 to 8 ins. .16

ILEX CRENATA MICROPHYLLA.

6 to 8 ins. .16

ILEX OPACA FEMINA

(Selected American Holly), 6 to 8 ins. .20

CHERRY LAUREL (Laurcerasus

Caroliniana), 6 to 8 ins. .12

NANDINA DOMESTICA, 6 to 10 ins. .10

Our hollies are grown from either cuttings or

grafts, from well-berried specimens, insur-

ing berries for you.

TERMS: Packing without cost. Minimum

50 of a kind please. 25 per cent with order,

balance C.O.D.

## EVERGREEN NURSERIES

Poplar Avenue Germantown, Tenn.

## JAPANESE BLACK PINE

The best pine for seashore planting.

18 to 24 ins. B&B \$200.00 per 100

2 to 3 ft. B&B 300.00 per 100

Truckloads only. No shipping.

C. HOOGENDOORN

Turner Road Newport, R. I.

DWARF BOX, 4 to 6 ins. Bushy, trans-

planted field stock, shipped with light ball or

bare root as desired, \$7.50 per 50. 500 or

more, 10 per cent discount. Cash with order,

crating free.

RICHARD P. RESSEL

Mulino, Ore.

## LINING-OUT STOCK

	Heavy rooted cuttings, Per 100	Per 1000
Ilex crenata convexa (bullata)	.....	.....
4 to 6 ins.	\$ 2.00	\$ 65.00
6 to 8 ins.	2.50	85.00
Taxus cuspidata, 6 to 8 ins.	3.00	90.00
Taxus Hicksi, 6 to 8 ins.	3.00	90.00
Abelia grandiflora, 6 to 8 ins.	.....	.....
from northern plants	9.00	80.00
1-yr., 2 1/2-in. rose pots	.....	.....
Deutzia gracilis	15.00	130.00
Abelia grandiflora	17.00	150.00
Taxus cuspidata	17.00	150.00
Taxus Moon's columaria	17.00	150.00
Taxus Hicksi	17.00	150.00
Ilex crenata convexa (bullata)	18.00	165.00

2-yr., 2 1/2-in. rose pots

Taxus cuspidata 22.00 200.00

All potted and bedded stock from 6 to 8-in.

cuttings.

Packing free for cash with order. 25 per

cent deposit on all orders.

LEHIGH VALLEY NURSERIES, INC.

1745 Linden St. Bethlehem, Pa.

## POTTED GRAFTS FOR SPRING, '53

Per 100 Per 1000

Acer Palmatum Dissectum \$65.00

Atropurpureum 50.00 \$450.00

Cornus Florida Rubra 50.00
Cryptomeria Japonica Lobbi	50.00	.....
Pinus Strobus Nana	50.00	.....
Tsuga Canadensis Pendula	50.00	.....

## TRANSPLANTS

Pieris Japonica, 4 to 6 ins. 15.00 125.00

Prices are F.O.B. Pompton Plains, N. J.

No packing charges. Subject to prior sale

and crop conditions. 25 per cent deposit,

balance before shipment.

## RUMBLE NURSERIES

Pompton Plains 1, N. J.

## ROOTED CUTTINGS

Per 100

Arborvitae Pyramidalis \$ 8.00

Juniperus Glauca Hetzi 9.00

Juniperus Vonehron 9.00

Taxus Andersoni 9.00

Taxus Capitata, leaders only 12.00

Taxus Cuspidata 9.00

Taxus Hicksi 9.00

Taxus Seebian's Intermedia 9.00

Booking orders now for May shipment only.

Free packing and parcel-post charges

prepaid. Cash with order, please.

EDWARDS EVERGREEN NURSERIES

West Lafayette, O.

## VERY



## NORTHERN-GROWN YEW

	Per 100	Per 1000
5000 Taxus Cuspidata, R. C.	\$10.00	\$ 90.00
5000 Taxus Cuspidata, 1-yr., T.	18.00	170.00

Peterson's Nursery & Greenhouse  
R. R. 3 Rochester, Minn.

## EVERGREEN PLANT MATERIAL

Linens and larger sizes of Azaleas, Cornus, Cotoneaster, Ilex, Juniperus, Leucothoe, Picea, Pieris, Rhododendrons, Taxus, Thuja, Viburnum. Certified for shipment anywhere. Wholesale Price List to the Trade.

H. W. WEBER EVERGREEN NURSERY  
16 Summer St. Weston 93, Mass.

Specimen Muhlenberg Pine—Ideal for Landscape Work. Sizes, 18 ins. to 4 1/2 ft. Priced according to specimen. No shipping unless by truck. Plants are already dug, ready to be picked up. Phone or write for appointment.

## BUCKLIN FRUIT FARM

Phalanx, N. J.

American Arborvitae, 7 to 9 ft., sheared, transplanted specimen stock, \$5.00 to \$6.00 ea. AMERICAN FORESTRY SERVICE CO., Lancaster, 4 mi. above City Line, Philadelphia 31, Pa. Greenwood 3-3611.

## JAPANESE BLACK PINE

We are headquarters for heavy liners of a beautiful compact strain of Japanese Black Pine. JOSEPH A. HREN NURSERIES, East Hampton, L. I., N. Y.

Beautiful specimen Taxus, hicksii and low-growing types. Send for our list and prices.

MATHEWS NURSERY & SEED CO.

1216 W. Ridge Rd. Gary, Ind.

## FRUIT AND NUT TREES

## AMERICAN FILBERTS (Hazelnuts)

	Per 10	Per 100
2 to 3 ft.	\$ 5.50	\$ 50.00
3 to 4 ft.	8.00	75.00
4 to 5 ft.	10.00	95.00
5 to 7 ft.	12.50	115.00

Waynesboro Nurseries, Waynesboro, Va.

## GROUND COVERS

VINCA MINOR, MYRTLE, PERIWINKLE—Fresh-dug, individually made up, 15 to 20-cane clumps, \$50.00 per 1000, 30-cane clumps, \$90.00 per 1000.

Pachysandra, strong 1-yr., rooted, \$55.00 per 1000.

Hall's Honeysuckle, branched, \$45.00 per 1000.

Ivy, English and Baltic, 2-yr. or more, field-grown, bare-root, \$55.00 per 1000.

H. C. WAUGH

R. D. No. 2 Cheshire, O.

PACHYSANDRA TERMINALIS, strong rooted cuttings, \$3.75 per 100, \$35.00 per 1000. Beetle Zone only. Over 5000, \$32.50 per 1000. DUNWOODIE NURSERIES, 6 Smart Ave., Yonkers, N. Y. Yonkers 5-1473.

## PACHYSANDRA TERMINALIS

Strong, 1-yr., field-grown, \$65.00 per 1000. HILLCREST GREENHOUSES, Franklin, Pa.

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## PEONIES

	Per 100
Strong, young roots, 3 to 5-eye and up	\$45.00
Felix Crousse	45.00
Festiva Maxima	45.00
Gloire de Bonkoop	45.00
Karl Rosenfeld	45.00
Lady Alexandra Duff	45.00
Mac Mahon	45.00
Mme. Calot	45.00
Mons. Jules Elie	45.00
Reine Hortense	45.00
Sarah Bernhardt	45.00
Dicentra Spectabilis, 3 to 5-eye	30.00
Dicentra Spectabilis, 5 to 8-eye and up	40.00
Dicentra Eximia, 3 to 5-eye	15.00
Dicentra Eximia, 5 to 8-eye and up	20.00
Funkia Variegata	15.00
Helleborus Niger (Christmas rose)	65.00
Eremurus Bungei, 1.00 each	
Eremurus Shelfordii, Hybrid, \$1.50 each	
Eremurus Robustus, \$2.00 each	

HARDY NORTHERN-GROWN LILY BULBS—New, rare, scarce and unusual as well as standard varieties. Send for your free copy.

New wholesale list now ready. J. HENDRIKS, GROWER, Portage, Mich.

## HEAVY FIELD PLANTS

	Per 100
Aster Beechwood Challenger	\$15.00
Aster Niohe (Dwf. white)	12.00
Aster Victor (Dwf. blue)	12.00
Antilbe Fanol (Best red)	25.00
Daisy Shasta Supreme	10.00
Funkia Lancifolia	10.00
Day Lilies (Makido, Hyperion)	12.00
Pampas Grass	12.00
Elk, Royal Robe	15.00

ELKHART NURSERY CO., Elkhart, Ind.

## DELPHINIUM PACIFIC HYBRIDS

Separate colors and mixed, 2-in. pots, 9c. New pink Astolat, 2-in. pots, 13 1/2c.

HARDY CHRYSANTHEMUMS—We have 50 of the best varieties, 300 rooted cuttings, 20 each of 15 varieties, our selection, \$16.50. 300 plants from 2-in. pots, 20 each of 15 varieties, our selection, \$33.00. STRATFORD GARDENS, Delaware, O.

## SNYDER'S

## PERENNIAL SPECIALTIES

Strong, blooming-size plants from open field beds, started last spring unless otherwise described.

	Per 100; 25 at the 100 rate.
Achillea Filipendula, yellow	4.00
Anemone Pulsatilla, lilac, heavy	4.00
Aquilegia Clematiflora, spurless, mixed	3.00
Aubrieta, large-flowered hybrid	4.00
Campanula Rotundifolia, blue	4.00
Catananche Caerulea, brilliant blue	3.00
Centaurea Deodora, large, heavy	4.00
Centaurea Montana, blue, heavy plants	4.00
Ceropegia Auriculata Nana, divisions	4.00

## DIANTHUS

All heavy bushy plants; finest seeds.	
Allwoodi, rich colors, very free	5.00
Highland Hybrid, brilliant colors	4.00
Little Jock Hyb., dwarf, compact	5.00
Rose Cushion (Neglectus Compacta Glauc)	4.00
Spring Beauty, double, large-flowered	4.00

DELPHINIUM GIANT PACIFIC HYBRIDS—Heavily rooted plants, sown early August.

Astolat, pink. Originator's seed, 10.00.

Galahad, white. Originator's seed, 7.00.

Round Table, mixed. Originator's seed, 7.00.

DELPHINIUM LYONDEL HYBRIDS

"The Delphinium of the Future"

Long-lived, dwarf, brilliant colors, nearly all double, Early August-sown, heavy, 7.00.

DELPHINIUM SINGLE

All heavily rooted plants, July-sown.

Belladonna, improved, light blue, 3.00.

Bellamosum, improved, deep blue, 3.00.

Blue Mirror (Cinerea), navy, spurless, 3.00.

Chinese Cambridge Blue, sky-blue, 3.00.

Chinese Alba, pure white, taller, 3.00.

Lamartine, deep blue, 4 ft., 4.00.

Dietmanns (Gas Plant), pink, 2-year, 7.00.

Dietmanns (Gas Plant), white, 2-year, 7.00.

Euphorbia Corollata, pure white, 4.00.

Erigeron Double Azure Beauty, 2 1/2 ft., beautiful blue, hardy, 7.00.

GYPHOPHILA (Baby's Breath)

All will bloom this season.

Oldhamiana, airy, misty blooms, pink, 4.00.

Paniculata, common misty Baby's Breath, 3.00.

Paniculata Double Snow White, 50 per cent double, 4.00.

HEUCHERA SANGUINEA (Coral-bells)

Flat-grown from open frames, 1-yr.-old, 5.00.

LIATRIS

All bulbs sure to bloom this summer.

Lonicella Punctata, dwarf, Sept. on, 4.00.

Pycnostachya, Early Hyb., 3.00.

Pycnostachya, August-blooming, 3.00.

Scariosa Alba, white, Sept. on, 5.00.

Scariosa Alba, true stock, transplanted last spring, 10.00.

Scariosa, August Glo. Scariosa, 5.00.

Scariosa, September Glory, 4.00.

PLATYCODON

All have bloomed and have been rogued.

Double Blue, 3-in. blooms, 1-yr., 3.00.

Double White, large pure white, 2-yr., 5.00.

Single Blue, large rich blue, 1-yr., 3.00.

Shell-Pink, large single, bluish-pink, 5.00.

POLYANTHUS (Primula Veris Hybrids)

Heavy, finest seeds. April-sown.

Choice Mixed, giant flowers, 5.00.

Crimson, uniformly rich red shades, 5.00.

Orange, deeper colors and blendings, 5.00.

Yellow, rich golden-yellow, 5.00.

White, finest strain of giant mix, 6.00.

Lavandula, Munstead's Strain, bushy, 4.00.

Lilium Flammula Compactum, yellow, 5.00.

Lycnis Chalcedonica, bright red, 3.00.

Monarda, Avalon Hyb. new, mixed, 5.00.

Polygonum Reynoutria, Dwarf Lace, 3.00.

Plant, Runner cuttings will make, 5.00.

PYRETHRUM (Painted Daisies)

Bushy plants, from finest seeds.

Choice Double, wide range of colors, 5.00.

Robinson's Dark Crimson, large single, 5.00.

Ruby Red, large singles, scarlet, 6.00.

SALVIA

All blooming-size plants, hardy.

Jurissel, dwarf, lavender-blue, 4.00.

Pratensis Blue, 2 ft., broad-leaved, 4.00.

Virgata, 3 ft., large blue flowers, 5.00.

Scabiosa, Isaac House Hyb., large, 5.00.

Scabiosa Perfecta, large flowers, 5.00.

Saponaria Orymoides Splendens, pink, 4.00.

Scutellaria Coelestina, violet-blue, 4.00.

Statice Dumosa, silver and lavender, 3.00.

Stokesia, Cornflower Aster, light blue, 3.00.

Verbascum, flame-colored hyb., heavy, 5.00.

Verbascum Phoeniceum Hyb., 3 to 4 ft., 4.00.

VIOLAS

Stocky plants, in bud, nearly 100 per cent true.

Arkwright Ruby, rich ruby, mahogany center, 2.50.

Blue Perfection, large, medium blue, 2.50.

Chantrelle, extra-large, apricot, 3.00.

White Perfection, large pure white, 2.50.

Shipment now or when needed.

Cash with order, please.

E. J. SNYDER West Milton, O.

HARDY FERNS

Ostrich, Lady, Claydon and Maidenhair, \$7.50 per 100; xx size, \$10.00.

STRAND NURSERY CO., Taylors Falls, Minn.

APRIL 15, 1953

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## HARDY PERENNIAL LINERS

Freshly dug, heavy field divisions. Priced per 100, 25 at same rate.

## NEW HARDY ASTERS

Janet McMillen, semidouble, rose	\$ 5.00
Mt. Everest, fine pure white	3.50
Plenty, large semidouble, light blue	4.00
The Archbishop, semidouble, rich purple	5.00
The Sexton, glowing blue-lilac	5.00

## "MODERN" ASTERS

ARAPAHOE (1952), early huge red	6.00
Field clumps, \$3.50 per 10	30.00
Alpington (1952), lovely shell-pink	6.00
Autumn Beauty, large early bronze	6.00
Cecil Reed, best early pink	6.00
Flaxen Beauty, pastel coral	5.00
Malinda Brown (1952), lavender-rose	4.00
Olive Longland, pastel apricot	4.00
WHITE CLOUD, superb early white	5.00
Field clumps, \$3.00 per 10	25.00
Yellow Erinna, large yellow pom-pom	5.00

\*Complete list on request.

## FLEMING'S FLOWER FIELDS

3100 Leighton Ave. Lincoln, Neb.

## PERENNIALS

Field-seeded, intensive cultivated, well-rooted and hardy. Two-year transplants. Prices per hundred.

AQUILEGIA—Crimsonstar, \$12.00; Longissima, \$12.00; ASTILBE—Rosea, \$12.00; DELPHINIUM Pacific Giant—Black Knight, \$14.00; Sir Galahad—White, \$14.00; GAILLARDIA—Dazzler, \$12.00; DIANTHUS—Spring Beauty, \$8.00; LUPINE—Russell, \$10.00; PHLOX—Subulata, Pink and Brilliant, \$10.00; PLATYCODON—Pink and Blue, \$12.00; PYRETHRUM—Robinson Crimson, \$12.00; James Kelway, \$12.00. Cash with order, please.	
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J. J. NIGARD NURSERY

Herbst, Wis.

EUONYMUS Coloratus, 2-yr., field-grown, \$25.00 per 100; \$225.00 per 1000.

EUONYMUS Coloratus, 1-yr., 2 1/2-in. pot, \$12.50 per 100; \$100.00 per 1000.

EUONYMUS Rad. Erecta, 2-yr., field-grown, \$25.00 per 100; \$225.00 per 1000.

EUONYMUS Rad. Erecta, 1-yr., 2 1/2-in. pot, \$12.50 per 100; \$100.00 per 1000.

LYTHRUM Morden Pink, 1-yr., field-grown, \$18.00 per 100; \$160.00 per 1000.

LYTHRUM Prolific, 1-yr., field-grown, \$18.00 per 100; \$160.00 per 1000.

All above: 25 of a kind at 100 rates; 250 of a kind at 1000 rates.

## CUNNINGHAM GARDENS, INC.

Waldron, Ind.

HARDY PLANTS—WITH SALES APPEAL, 25 at 100 rate.

Ageratum Blue Mist (Eupatorium sp.), \$ 6.00.

Aster New Royal Purple, none better... 12.00.

Dianthus, Clove Pinks, select colors... 8.00.

Grecian Foxglove, Digitalis lanata... 18.00.

Iris sibirica, fine, tall blue... 8.00.

Lilium formosanum, 2-yr. bulbs... 12.00.

Penstemon Fygm Rose, rosy-lilac... 12.00.

Penstemon tubiflorus, tall purest white... 10.00.

Scutellaria Blue Symphony... 12.00.

Shasta Daisy, Early Bouquet, div... 8.00.

Stokesia Blue Moon, no aster its equal... 8.00.

## PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

## HEAVY FIELD PLANTS

	Per 10	Per 100
Allium (Chives)	\$2.00	\$15.00
Artemisia Silvermound, dwarf	2.50	20.00
Emerocaulis Hyperion	2.00	15.00
Iberis Sempervirens, 2-yr.	2.00	15.00
Siberian Iris Caesar's Brother	2.00	15.00
Siberian Iris Blue Charm	2.00	15.00
Siberian Iris Snow Queen	2.00	15.00
Phlox Mary Louise, 2-yr.	2.00	15.00
Plumbago Larpetiae	2.00	15.00
Thermopsis Caroliniana	2.50	20.00
Tritoma Primrose Beauty	2.00	15.00

## BEARDSLEE NURSERY

Perry, O.

## 1-YR. FIELD-GROWN PLANTS

	Per 100
Campanula Persicifolia, white, 2-yr., T.	\$9.00
Canterbury Bells, mixed, 1-yr.	4.00
Carnation, Grenadin, pink or red, 1-yr.	4.00
Carnation, Grenadin, white, yellow or mixed, 1-yr.	4.00
Dianthus Chinensis, double, mixed, 1-yr.	4.00
Gallardia, 1-yr.	4.00
Gypsophila Paniculata, 1-yr.	4.00
Oriental Poppy, scarlet, 2-yr.	5.00
Sweet William, double, mixed, 1-yr.	4.00

## NOVOTNY GARDENS

Osage, Ia.

Strong field-grown perennials for spring shipment. Place your order now.

Aquilegia—Mrs. Scott's... \$6.00.

Carnation—Grenadin mixed... 6.00.

Delphinium—Giant Pacific, mixed colors... 8.00.

# 68 AMERICAN NURSERYMAN

## HARDY PLANTS—Continued

Write for our 1953 Wholesale List featuring Popular and Choice SUMMER-FLOWERING MUMS and top PERENNIALS.

CORLISS BROS. INC. NURSERIES  
15 Reynard St. Gloucester, Mass.

PERENNIALS  
New and standard kinds.  
New wholesale list now ready.  
CARROLL GARDENS  
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America's Best Source  
for Hardy Plants is  
THE WAYSIDE GARDENS  
Mentor, Ohio  
Write for Trade List.

LEMON BALM  
Extremely fragrant, nice rooted plants.  
\$5.00 per 100. Sample dozen, \$1.00.  
ROBINSON NURSERY CO. Greenville, Ga.

VIOLETS  
Sweet-scented blue, long stem in bud and bloom. \$5.00 per 100, \$30.00 per 1000.  
ROBINSON NURSERY CO. Greenville, Ga.

TEUCRIUM CHAMAEDRYS  
Well-rooted cuttings.  
\$5.00 per 100, \$45.00 per 1000.  
BEARDSLEE NURSERY Perry, O.

Pansies, perennials and rock plants in wide variety. Send for catalog.  
PITZONKA'S PANSY FARM  
Bristol, Pa.

YUCCA GLAUCA—Hardy anywhere. Good, strong 2-yr.-old plants. \$5.00 per 100.  
GILBERTSON NURSERY  
Kindred, N. D.

## HIBISCUS

VON KLEINSCHMIDT Hibiscus, first time offered in Texas. Sturdy, fast-growing, double lemon-yellow hibiscus, profuse blooming, with lemon fragrance, \$35.00 per 100.

	Per 100
Crown of Bohemia, double yellow.....	\$26.00
Hills of Gold, double yellow.....	26.00
Lamberti, double red.....	21.00
Pride of Hankins, double rose.....	21.00
Coral Beauty, double coral.....	21.00
Kona, double light pink.....	21.00
Jigoro, double orange.....	21.00
Sub Violaceo, double rose-pink.....	21.00
Peach Blow, double pink.....	21.00
Agnes Gault, single pink.....	21.00
Indian Chief, single red.....	19.00
Golden Dawn, single yellow.....	19.00
Alba White, single white.....	19.00
Brilliantissima, single red.....	16.00
Grandiflora, single pink.....	16.00
Payche, single red.....	16.00
California Gold, single yellow.....	19.00
Florida Gem, single pink.....	19.00
Red Agnes Gault, single red.....	19.00
American Beauty, single pink.....	19.00
Luna, single yellow.....	19.00
Delectata, single orchid.....	19.00
Tahiti, single yellow.....	19.00
Pride of Bellaire, single yellow.....	19.00
Plumbago.....	12.50
Grand Duke Jasmine.....	12.50
Confederate Jasmine.....	12.50

BRADSHAW'S NURSERY  
League City, Tex.

## IVIES

BALTIC IVY. Rooted cuttings, 5c; 2-in. pots, 10c; 2-yr., 1/2-in. pots, 15c.  
EUNYMUS RADICANS: Erecta, Patens  
Newport, Carrier and Coloratus. Rooted cuttings, 6c; 2-in. pots, 10c; 2-yr., field, XX, 20c.  
STRATFORD GARDENS Delaware, O.

Hardy ENGLISH IVY from stock surviving in our nursery at below zero temperatures. Rooted cuttings, \$30.00 per 1000. PREPAID.  
BABCOCK GARDENS  
R. 3 Jamestown, N. Y.

## LINING-OUT STOCK

	Per 10	Per 100
Castanea Mollissima, (Chinese Chestnut), 1-yr., field.....	\$3.00	\$25.00
Philadelphus Aurea, 2-in. pots.....	2.50	20.00
Pracantha Coccinea Lalandi, 2-in. pots.....	3.00	25.00
Teucrium Chamaedrys, rooted cuttings.....	5.00	
Vicary Privet, 2-in. pots.....	2.00	18.00

BEARDSLEE NURSERY Perry, O.

## PINK-FLOWERING DOGWOOD

	Per 100
6 to 10 ins., T. grafts.....	\$75.00
10 to 15 ins., T. grafts.....	85.00

Sturdy 1-yr., field bed grown.  
Send for New Spring List.  
POSSUM HOLLOW NURSERIES  
6327 Magnolia St. Philadelphia 44, Pa.

## LINERS

Complete list of lining-out stock of ornamental aristoerats now ready. Copy gladly sent on request. Established 1921 and still growing. JOHN VERMEULEN & SON, INC.  
Neshanic Station, N. J.

## 1952-1953 Lining-out Stock

	Per 100	Per 1000
14,500 Althaea, 1-yr. sdigs.....	\$4.50	\$35.00
775 Althaea W. R. Smith, 2 1/2 to 3 ft., heavy, each.....		
540 Althaea Woodbridge, 2 1/2 to 3 ft., heavy, each 20c.....		
3000 Azalea Mollis, 2-yr., T. FR.....	25.00	200.00
150 Cotoneaster Divaricata, 2-yr., 9 to 12 ins., T. FR.....	30.00	250.00
7900 Cydonia Japonica, 1-yr. sdgs.....	4.50	35.00
1850 Cydonia Japonica, 2-yr. sdigs.....	8.50	75.00
400 Euonymus Radicans Variegatus.....	35.00	300.00
200 Hydrangea P.G., 1-yr., 9 to 12 ins.....	15.00	140.00
825 Liquidambar Styraciflua, 1-yr. sdigs.....	7.00	60.00
1000 Philadelphus Virginialis, 2-yr., 15 to 18 ins., T. FR.....	30.00	250.00
3000 Picea Excelsa, 3-yr., T. FR.....	30.00	250.00
15,000 Rosa Multiflora, grafting size.....	5.00	40.00
50,000 Rosa Multiflora, 2 to 3 mm.....	2.50	18.00
490 Rosa Rugosa (mixed), 1-yr. sdigs.....	5.50	45.00
5000 Thuja Occidentalis, 2-yr., grafting size.....	7.00	60.00
1400 Thuja Occidentalis Nigra, 3-yr., T. FR.....	70.00	600.00
2000 Thuja Occidentalis, 2-yr., G. FR.....	70.00	600.00
3000 Thuja Orientalis Aurea Nana (Biota), 2-yr., G. FR.....	60.00	500.00
T-Once Transplanted; T-Twice Transplanted; FR—Field Row. BOULEVARD NURSERIES Newport, R. I.		

## ROOTED CUTTINGS

	Per 10	Per 100	Per 1000
Arborvitae Elegantisima, 6 to 10 ins.....	\$0.10	\$0.09	\$0.08
Arborvitae, Globe.....	.10	.09	.08
Arborvitae, Green Niagara, 4 to 6 ins.....	.10	.09	.08
Arborvitae Pyramidalis, 6 to 10 ins.....	.10	.09	.08
Arborvitae, Ware, 4 to 6 ins.....	.10	.09	.08
Juniper, Andorra, 4 to 8 ins.....	.14	.13	.12
Juniper, Pfiffer, 4 to 8 ins.....	.14	.13	.12
Juniper, Savin, 4 to 8 ins.....	.14	.13	.12
Taxus Capitata (Leaders only), 6 to 10 ins.....	.20	.18	.16
Taxus Cupidata, 6 to 10 ins.....	.10	.09	.08
Taxus Hicksi, 6 to 10 ins.....	.10	.09	.08
Taxus Intermedia, 6 to 10 ins.....	.10	.09	.08
Grafted Spruce, 2 1/2-in. pots, Koster Blue, \$1.25 each.....			

	Per 10	Per 100	Per 1000
PLANT BANDS			
Arborvitae, Globe.....	\$0.20	\$0.18	\$0.16
Arborvitae Pyramidalis, 6 to 10 ins.....	.20	.18	.16
Juniper, Pfiffer, 4 to 8 ins.....	.25	.23	.22
Taxus Capitata, 6 to 10 ins.....	.28	.26	.24
Taxus Cupidata, 6 to 10 ins.....	.18	.17	.16
Taxus Hicksi, 6 to 10 ins.....	.18	.17	.16

300 at 1000 rate. Packing free.  
DRAKE'S NURSERIES  
G-4342 Branch Road Flint 6, Mich.

## LINE-OUTS—OUTSIDE-GROWN

	Per 100
Winter-Hardened—Fully Acclimated	
25 at 100 rate	
Chittamwood, rare tree, 1-yr. sdigs.....	\$10.00
Hardy Chinaberry, 6 to 12 ins.....	9.00
Unusual Red Cereus, 6 to 11 ins.....	20.00
Mimosa Silk Tree, 6 to 12 ins.....	8.00
Sycamore Maple, rare, 4 to 10 ins.....	9.00
May Day Tree, attractive, 6 to 12 ins.....	10.00
Flowering Oriental Cherry, 10 to 15 ins.....	20.00
Pendula Bald Cypress, 1 to 2 ft. with order.....	15.00
White Oak, dense foliage, 6 to 12 ins.....	6.00
American Filberts, 8 to 12 ins.....	15.00
Big Shellbark Hickory, 6 to 10 ins.....	12.00
Giant Shagbark Hickory, 6 to 10 ins.....	12.00
Scaly-bark Hickory, 6 to 10 ins.....	12.00
Biota Orientalis Compacta, 6 to 10 ins.....	10.00
Biota Orientalis Compacta, 1-yr. sdigs.....	5.00
White Pine, 1-yr. sdigs.....	6.00
Austria Pine, 1-yr. sdigs.....	6.00
Scotch Pine, 1-yr. sdigs.....	6.00
Yucca Filamentosa.....	12.00
Siberian Elm Shrub, 6 to 12 ins.....	8.00
Monk's Pepper Tree, 6 to 12 ins.....	10.00
Boston Ivy, 1-yr. root crowns.....	8.00
Kudzu Vine, root crowns.....	8.00

No packing charge—remitt. with order.  
PRAIRIE SOUTHWEST FLORETUM,  
Fall River, Kan.

## LINING-OUT STOCK

	Per 100
Hex Convexa, strong, 2-yr., tr.....	\$50.00
Juniperus Meyeri, strong, 2-yr., tr. 7 to 10 ins., cut back last spring.....	40.00
Pinusus Aurea, strong, 2-yr., tr. 8 to 12 ins., cut back last spring.....	30.00
Taxus Hatfieldi, strong, 2-yr., tr. 8 to 12 ins.....	35.00
Thuja Nigra, strong, 2-yr., tr. 12 to 18 ins.....	35.00
Thuja Woodwardii (Globe), strong, 2-yr., tr. 8 to 10 ins.....	35.00

C. HOOGENDOORN  
Turner Road Newport, R. I.

	Per 100	Per 1000
Acer Palmatum, 1-yr. S.....	\$8.00	\$50.00
Biota Orientalis, 2-yr. S.....	3.50	30.00
Chamaecyparis Obtusa, 2-yr. S.....	3.00	25.00
Cryptomeria Japonica, 2-yr. T.....	6.00	50.00
Ilex Crenata, 2-yr. S.....	10.00	90.00
Picea Alba, 2-yr. S.....	3.50	30.00
Picea Canadensis, 2-yr. S.....	3.50	30.00
Picea Engelmanni, 2-yr. S.....	3.50	30.00
Picea Excelsa, 3-yr. S.....	3.50	30.00
Picea Pungens Glauca, 2-yr.....	3.50	30.00
Pinus Austrica, 2-yr. S.....	7.00	60.00
Pinus densiflora, 2-yr. S.....	5.00	50.00
Pinus Mugo, 2-yr. S.....	5.50	50.00
Pinus Strobus, 2-yr. S.....	3.50	30.00
Pinus Sylvestris, 2-yr. S.....	3.00	25.00
Syringia Vulgaris, 1-yr. S.....	3.00	25.00
Tsuga Canadensis, 2-yr. T.....	9.00	80.00
4 to 6 ins.....		
From Holland Import.		
Rhod. Hybr., named var., 1-yr., grafted.....	\$75.00	\$750.00
2-yr., grafted.....	150.00	
Azalea Mollis, named var., 6 to 8 yrs., field-grown.....	75.00	
Viburnum Carlesii, 1-yr., field-grown, grafted.....	75.00	

Full list on request.  
VERKADE'S NURSERIES, WAYNE, N. J.

## SPRING SPECIAL SAVE ON QUALITY PLANTS NICE STURDY PLANTS OUT OF 2 1/2-IN. POTS.

	Per 100
Blue Spire Arborvitae.....	\$15.00
Excelsa Arborvitae.....	15.00
Golden Berckmans Arborvitae.....	15.00
Golden Bonita Arborvitae.....	15.00
Green Bonita Arborvitae.....	15.00
Barbados Cherry, 2-in. pot.....	15.00
Italian Cypress, 2 1/2-in. pot.....	18.00
Grand Duke Jasmine.....	12.50
Primrose Jasmine.....	12.00
Blue Vase Juniper (Blue Star), 2 1/2-in. pot.....	25.00
Von Ehron Juniper.....	15.00
Wax Ligustrum.....	12.50
Plumbago.....	12.50
Small-leaved Yew.....	17.50

BRADSHAW'S NURSERY  
League City, Tex.

## EVERGREENS—LINING-OUT STOCK

	Each
Abies Concolor, 3-yr., S. X.....	20c
Azalea Amoena, 1-yr. beds.....	25c
Biota Orientalis Elegantisima, 2-yr., S.....	5c
Buxus Arborescens, 1-yr. beds.....	15c
Buxus Sempervirens, 1-yr. beds.....	15c
Ilex Bullata, 1-yr. beds.....	17 1/2c
Ilex Crenata, 1-yr. beds.....	17 1/2c
Retinospora Lutescens, 1-yr. beds.....	15c
Retinospora Plumosa, 1-yr. beds.....	15c
Retinospora Plumosa, 1-yr. beds.....	15c
Taxus Baccata Aurea, 2-yr. beds.....	25c
Taxus Browni, 2-yr. beds.....	22 1/2c
Taxus Hatfieldi, 2-yr. beds.....	22 1/2c
Taxus Hicksi, 2-yr. beds.....	22 1/2c
Taxus Vermeeulen, 2-yr. beds.....	22 1/2c
Thuja Elegantisima, 1-yr. beds.....	20c
Thuja Globosa, 1-yr. beds.....	15c
Thuja Pyramidalis, 1-yr. beds.....	15c

Cash with order, packing free. Kindly order in lots of 50 or more.  
DEL-MAR-VA NURSERIES Lincoln, Del.

## QUALITY LINERS

	Per 100
Abelia Grandiflora, 6 to 12 ins., tr.....	\$25.00
Canadian Hemlock, 4 to 6 ins., tr.....	12.50
Canadian Hemlock, 5 to 10 ins., tr.....	20.00
Mugo Pine, 4 to 8 ins., tr. (cheared).....	20.00
Franklinia, 8 to 12 ins., sdigs.....	25.00
Taxus Hatfieldi, 6 to 8 ins., tr.....	27.50
French Hybrid Lilacs, 6 to 12 ins., grafts.....	27.50
Viburnum Carlesii, 4 to 5 ins., tr.....	35.00
Red-Jig. Dogwood, 6 to 10 ins., grafts.....	75.00
Red Japanese Maple, 6 to 12 ins., grafts.....	75.00

Send for new Spring List.  
POSSUM HOLLOW NURSERIES  
6327 Magnolia St. Philadelphia 44, Pa.

## EVERGREEN LINERS in wood plant bands.

For field planting.

	Each
PFITZER JUNIPER, 6 to 8 ins.....	\$0.14 1/2
8 to 10 ins.....	.20
ASHFORD JUNIPER, 10 to 15 ins., 2-yr.....	.20

EUONYMUS PATENS, Small leaf.....

Prices are for 300 or more, total order. Less than 300, 2c more per plant.

Book your order for spring.

McININCH GREENHOUSES  
St. Joseph, Mo.

## EVERGREENS

	Per 100
Euonymus Vegetus, strong field-grown, 1-yr., T. 6 to 12 ins.....	\$20.00
Caragana Arborescens, 1-yr., S. 6 to 12 ins.....	3.00
Cash, or one-fourth down, balance, C.O.D. Free packing.	

GREEN RIDGE NURSERY  
Madison, O.

See our Classified Ad in this issue under

## EVERGREENS

T. G. OWEN & SON, INC.  
Columbus, Miss.

Start Your Offer Now  
in the American Nurseryman  
And Watch Sales Climb.

## RHODODENDRONS

**RHODODENDRON:** Ponticum, Catawbiense hybrida. Good foliage for understocks, over-the-counter sales or to grow on. Shipped with ball.

8 to 12 ins. tall, XX, T.	\$12.50 per 50
6 to 8 ins. tall, X	10.00 per 50
4 to 6 ins. tall, X	7.50 per 50

500 or more of a size, 10 per cent discount. Crating free. Cash with order.

**RICHARD P. RESEL** Mulino, Ore.

## ROOTED CUTTINGS

Rooted Cuttings, Transplanted in Flats, 1-yr.

Azalea Hinodogiri, 4 to 6 ins.	\$15.00	\$125.00
Azalea Hini-Crison, 4 to 6 ins.	15.00	125.00
Azalea Mucronulatum (from seed), 4 to 6 ins.	15.00	125.00
Ilex Opaca, 4 to 5 ins.	20.00	125.00
Pieris Japonica, 4 to 6 ins.	15.00	125.00

**VAN DINE NURSERY**  
Berdan Ave. Preckness, N. J.

## HEAVILY ROOTED CUTTINGS FROM COLDFRAMES

Euonymus Vegetus ("Climbing bush")	1-yr.	\$5.00
Ligustrum Lucidum Compactum	1-yr.	7.00
Ligustrum Lucidum Nobilis	1-yr.	7.00

Packing free. Cash with order, please.

**HUCHANAN'S NURSERY**  
5108 Western Blvd. Raleigh, N. C.

## ROSEBUSHES

### ROSES

Delaware and California grown. Vigorous, well-rooted, plump plants, graded here at Selbyville, in accordance with A. A. N. standards. These roses will please both you and your customers. Available for shipment as desired from our modern cold storage, equipped with ultraviolet ray lamps. (Price per plant, No. 1 grade)

**PATENTED ROSES** 10-19 20-99 100-249

Variety and Patent No.	plants plants plants
Climbing Peace, No. 922	\$1.40 \$1.25 \$1.20
Fred Howard, No. 1006	1.40 1.25 1.20
Mirandy, No. 632	1.10 1.00 .95
Peace, No. 591	1.40 1.25 1.20
Sunset Glory, No. 738	1.00 .88 .80
Vogue, No. 926	1.25 1.15 1.05

**NOTE:** The varieties of Patented Roses listed above are also available in No. 1 1/2 grade, at a reduction of 20 per cent in price.

**STANDARD ROSES** Per 10 Per 100

2-yr., No. 1 grade	\$6.50 \$60.00
2-yr., medium grown	5.50 50.00

### HYBRID TEA VARIETIES:

Condesa de Santiago, two-tone	
Editor McFarland, pink	
Etoile de Hollande, red	
Golden Charm, yellow	
Golden Dawn, yellow	
Joanna Hill, yellow	
K. A. Viktoriya, white	
Mme. Jules Bouche, white	
Poinsettia, red	
President Hoover, two-tone	
Red Radiance, red	
Talisman, two-tone	
Yellow Condesa, yellow	

**CLIMBING HYBRID TEAS:**

Cl. Condesa, two-tone	
Cl. Etoile de Hollande, red	
Cl. E. A. Viktoriya, white	
Cl. Mrs. E. P. Thom, yellow	
Cl. P. S. du Pont, yellow	
Cl. Pink Radiance, pink	
Cl. President Hoover, two-tone	
Cl. Red Radiance, red	
Cl. Talisman, two-tone	

Please use your printed stationery when ordering at wholesale rates.

### BUNTINGS' NURSERIES, INC.

Box 3 Selbyville, Del.

### PACKAGED ROSEBUSHES FOR OVER-THE-COUNTER SALES

2-yr.-old, field-grown. Large picture labels in natural color with planting instructions on each bush. Root-wrapped and dipped in transparent wax.

Individually packed, XXX, jumbo grade, assorted colors. Per 100 packs, 74c each.

Individually packed, No. 1 grade, assorted colors. Per 100 packs, 60c each.

3 in 1 Combination Pack, No. 1 1/2 grade, 1 each of 3 different colors. Per 100 pack, \$1.10 each.

Shipped F.O.B. Send remittance with order, 50¢ at 100 rate. Write for price list on patent and standard package roses listed according to variety and color.

### HARVESTIME, Nursery Sales Div.

3958 W. 55th St. Chicago 32, Ill.

2-yr. Multiflora Roses, Just right for quick fences.

### MATHEWS NURSERY

1216 W. Ridge Rd. Gary, Ind.

## SEEDLINGS

Western Green, Virginia Juniper seedlings, 1-yr., 3 to 6 ins., \$25.00 per 1000.

Chinese Arborvitae seedlings, 2-yr., 6 to 10 ins., \$25.00 per 1000.

**LUKE NURSERY** Pauls Valley, Okla.

**NANDINA DOMESTICA**  
Strong seedlings, ready for pots or beds, \$30.00 per 1000, 500 minimum. Cash, please.

**SKYLINE GARDENS**  
Box 3316 Birmingham, Ala.

American Arborvitae (Ocell-dentalia), 2-yr. S., 4 to 8 ins. \$ 5.25 \$26.75

American Red Pine, 3-yr. S., 6 to 12 ins. 9.75 48.75

Mugho Pine (Certified Tyrolean seed), True dwarf, 2-yr. S., 2 to 6 ins. 6.25 26.75

Rocky Mt. Juniper (Scopulorum), 3-yr. S., 6 to 12 ins. 12.50

Colorado Blue Spruce (Seed hand-picked from blue trees); 3-yr. S., 4 to 8 ins. 9.75 49.75

TERMS—Remittance with order. Packing free. Parcel prepaid. Send for price list.

**NEUNER'S EVERGREEN NURSERY**  
Elcher Road, R. D. 3, Emaworth 2, Pa.

**SEEDLINGS—Bed-grown in soil prepared to produce fibrous root systems. We bundle and pack them to reach you in fine condition.**

**BIOTA ORIENTALIS.** Per 1000

2-yr., 10 to 14 ins.	\$30.00
1-yr., 3 to 5 ins.	15.00

**JUNIPERUS VIRGINIANA** Per 1000

1-yr., 3 to 6 ins.	25.00
--------------------	-------

**SOUTHERN NURSERY**  
Rt. 7, Box 254A Okla. City, Okla.

### Juniper Seedlings

Juniperus Communis, 2-yr., 4 to 6 ins.	\$5.00	\$40.00
Juniperus Scopulorum, 2-yr., 3 to 8 ins.	6.00	50.00

**THE HARRIS GARDENS** Enterprise, Kan.

## SEEDS

### LAWN SEED

at wholesale prices for landscape gardeners, cemeteries, contractors, etc.

50 lbs. 100 lbs.	
Landscape Gardeners' Mixture	\$32.00 \$52.00
Cemetery Mixture	37.00 71.00
Contractors' Mixture	16.00 30.00

F.O.B. New York. 300 lbs. freight paid. Send for complete list. Also prices for seed packed in colored bags suitable for resale.

**HERBST BROTHERS**  
678 Broadway, New York 12, N. Y.

### ASPARAGUS SEED

	Per lb.
Mary Washington	\$1.30
ROBERTS SPECIAL STRAIN	7.00
California No. 500	2.65
Paradise	1.70

F.O.B. New York.

Commercial growers ask for quantity prices.

**HERBST BROTHERS**  
678 Broadway New York 12, N. Y.

"Pure Ky." BLUE GRASS LAWN SEED AT LOWER PRICE: Subject supply on hand. Extra-fine quality, grown in the heart of blue grass country. 10 lbs., \$7.00; 25 lbs., \$16.00; 50 lbs., \$30.00; 100 lbs., \$58.00. All F.O.B. here.

**WALNUT LAWN FARM, Est. 1841**  
Rt. 2F Lexington, Ky.

## SHRUBS and TREES

**HIBISCUS**—Mallova. Henderson's Giant Hybrid. Hardy anywhere. 6 to 12-in. blooms. Mixed colors, heavy-blooming stock. Doz., \$4.00; 100, \$20.00; 1000, \$150.00.

Liners of the above: 100, \$8.00; 1000, \$40.00.

**NEW Henderson's Giant and Red Glory Hybrids.** Tall-growing, upright, shades of red and pink. No whites. 100, \$10.00.

**ALTHAEA**—Three outstanding new doubles of excellent beauty. Hardy anywhere. All guaranteed blooming stock. These are 10 to 12-in. liners. If interested in larger sizes and other plants send for list.

	12	100
EFFIE RIEGEL, double snow-white	\$1.50	\$10.00
PINK DELIGHT, double shell-pink	1.50	10.00
KREIDER BLUE, a fine double blue	2.50	15.00

**WATER OAKS—Quercus Nigra.** An old favorite, well-branched, good roots. 9 to 12 ft., \$30.00 per doz. Send for list for other sizes.

**TEXAS UMBRELLA CHINAS**—Melia Azedarach Umbrellaculiformis. Bright clean stock. 15 to 18 ins., 100, \$10.00; 30 to 40 ins., 100, \$15.00.

**MIMOSA OR SILK TREE—Albizia Julibrissin.** Ideal shrub. 10 ins., 100, \$25.00; 1000, \$20.00; 12 to 18 ins., 100, \$20.00; 1000, \$25.00. 24 to 30 ins., 100, \$40.00; 1000, \$35.00. 50 at 100 rate, 500 at 1000 rate.

**HEAVY TRANSPLANTS** \$12.00 doz.

6 to 8 ft., branched	12.00 doz.
9 to 12 ft., branched	24.00 doz.
12 to 14 ft., branched	32.00 doz.

**RIEGLER PLANT CO.** Experiment, Ga.

### NURSERY STOCK

	Per 100	Per 1000
Acer Palmatum (green-leaved Japanese Maple), 1-yr. seedlings, 4 to 10 ins.	\$ 6.00	\$ 50.00
Beach Plum, strong 1-yr. seedlings, 10 to 18 ins.	10.00	75.00
Biota Orientalis, 2-yr. seedlings, 6 to 12 ins.	5.00	30.00
Cotoneaster in varieties (see our display ad)		
Larix Leptolepis, 2-yr. seedlings, 10 to 15 ins.	12.00	100.00
Magnolia Soulangiana, 1-yr. tr., cuttings, 5 to 8 ins.	55.00	500.00

**C. HOOGEENDOORN**  
Turner Road Newport, R. I.

APRIL 15, 1953

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## FOREST SEEDLINGS

	Per 100	Per 1000
23,000 Caragana Arboreascens, 6 to 12 ins.	\$ 2.00	\$ 18.00
3,000 Cornus Stolonifera, 8 to 12 ins.	3.00	25.00
400 Cornus Stolonifera, 18 to 24 ins.	6.50	55.00
15,000 Cotoneaster Acutifolia, 6 to 12 ins.	7.50	65.00
3,000 Corylus Americana, 12 to 18 ins.	7.00	60.00
50,000 Thornless Honey Locust, 12 to 18 ins.	2.40	20.00
25,000 18 to 24 ins.	3.50	30.00
4,000 2 to 3 ft.	5.00	45.00
200 Bur Oak, 4 to 6 ins.	2.50	20.00
1,400 6 to 12 ins.	4.50	50.00
1,000 12 to 18 ins.	6.50	70.00
1,200 18 to 24 ins.	10.50	90.00
1,400 2 to 3 ft.	20.00	180.00
75 3 to 4 ft.	25.00	200.00
Russian Olive, 18 to 24 ins.	5.00	45.00
60,000 2 to 3 ft.	7.50	65.00
300 Prunus Padus Commutata (Mayday), 4 to 6 ins.	3.50	30.00
2,000 12 to 18 ins.	6.50	55.00
1,800 Viburnum Lentago, 4 to 6 ins.	3.00	25.00
3,100 6 to 9 ins.	4.50	40.00
200 Viburnum Opulus, 2 to 4 ins.	1.50	15.00
3,000 4 to 6 ins.	3.00	25.00

### SHRUBS

	Per 10	Per 100	Per 1000
60 Almond, Pink, 18 to 24 ins.	\$4.00	\$35.00	300.00
100 Almond, Pink, 2 to 3 ft.	5.50	50.00	\$450.00
250 Berberis Thunbergi, 12 to 15 ins.	2.25	19.00	160.00
700 15 to 18 ins.	2.50	22.50	200.00
400 18 to 24 ins.	3.20	28.00	250.00
3,500 Berberis Thunbergi, 2-yr. S., 12 to 18 ins., Br.	10.00	90.00	700.00
1,600 9 to 12 ins., Br.	8.00	70.00	600.00
190 Cotoneaster Acutifolia, 2 to 3 ft.	5.50	50.00	450.00
200 Cotoneaster Acutifolia, 3 to 4 ft.	6.50	60.00	550.00
300 Cydonia Japonica, 18 to 24 ins.	3.80	33.00	300.00
120 Forsythia Intermedia, 18 to 24 ins.	4.40	40.00	350.00
300 2 to 3 ft.	5.50	50.00	450.00
450 3 to 4 ft.	6.50	60.00	550.00
40 4 to 5 ft.	7.50	70.00	650.00
100 Honeysuckle, Tatarian, Pink, 12 to 18 ins.	2.70	25.00	200.00
150 18 to 24 ins.	3.80	35.00	300.00
450 2 to 3 ft.	5.00	45.00	400.00
550 3 to 4 ft.	6.00	55.00	500.00
225 4 to 5 ft.	7.50	70.00	650.00
150 Honeysuckle, Tatarian, Red, 12 to 18 ins.	2.70	25.00	200.00
200 18 to 24 ins.	3.80	35.00	300.00
400 2 to 3 ft.	5.00	45.00	400.00
350 3 to 4 ft.	6.00	55.00	500.00
45 4 to 5 ft.	7.50	70.00	650.00
1,000 Hydrangea Peegee, 12 to 18 ins.	3.20	28.00	250.00
1,000 18 to 24 ins.	4.50	40.00	350.00
500 2 to 3 ft.	5.50	50.00	450.00
500 Lilac, Common Purple, 12 to 18 ins.	2.90	25.00	220.00
600 18 to 24 ins.	4.00	35.00	300.00
80 2 to 3 ft.	5.00	45.00	400.00
125 Lilac, Villosa, 12 to 18 ins.	3.50	30.00	250.00
800 Philadelphia Glacier, 3 to 4 ft.	7.00	65.00	600.00
60 Philadelphia Lemoinei, 18 to 24 ins.	4.50	40.00	350.00
500 2 to 3 ft.	5.50	50.00	450.00
300 3 to 4 ft.	7.00	65.00	600.00
60 Privet, Russian Golden, 12 to 15 ins.	2.50	20.00	180.00
90 15 to 18 ins.	3.50	30.00	270.00
70 18 to 24 ins.	5.50	50.00	450.00
80 Spiraea Billardi, 3 to 4 ft.	5.00	45.00	400.00
600 Spiraea Frenschii, 12 to 15 ins.	2.70	25.00	220.00
500 15 to 18 ins.	3.10	29.00	250.00
60 Spiraea Multiflora, 12 to 18 ins.	3.20	28.00	250.00
200 18 to 24 ins.	4.50	40.00	350.00
250 2 to 3 ft.	5.50	47.50	450.00
30 Spiraea Thunbergi, 15 to 18 ins.	3.50	30.00	270.00
100 Spiraea Thunbergi, 18 to 24 ins.	4.50	40.00	350.00
300 Tamarix Hispanica, 18 to 24 ins.	3.50	30.00	270.00
800 2 to 3 ft.	4.50	40.00	350.00
600 3 to 4 ft.	5.50	50.00	450.00
250 Viburnum Americanum, 12 to 18 ins.	3.50	30.00	270.00
160 Viburnum Americanum, 18 to 24 ins.	5.50	45.00	400.00
100 Viburnum Opulus Sterile, 18 to 24 ins.	5.50	50.00	450.00

Terms: Cash, unless credit has been established or satisfactory reference furnished. Boxing or baling at cost.

**PLUMFIELD NURSERIES, INC.**  
2105 N. Nye Ave. Fremont, Neb.

**EUONYMUS ALATUS COMPACTA**  
1-yr. transplants, 4 to 7 ft., \$25.00 per 100

**C. HOOGEENDOORN**  
Turner Road Newport, R. I.



## SHRUBS AND TREES—Continued

Abelia Grandiflora, 1-yr., T.....	10	100
Arborvitae Boothii (Best Globe), 4 to 6 ins., X.....	\$2.00	17.50
Arborvitae Globosa, 4 to 6 ins., X.....	2.00	17.50
Arborvitae Nigra, 4 to 6 ins., X.....	2.00	17.50
Arborvitae, Hills, R. C.....	8.00	
Arborvitae, Hills, 4 to 6 ins., X.....	2.00	17.50
Arborvitae, Pyramidalis, R. C.....	8.00	
4 to 6 ins., X.....	2.00	17.50
6 to 8 ins., X.....	3.00	22.50
Arborvitae, Siberian, 4 to 6 ins., X.....	2.00	17.50
Biota Bonita, 4 to 6 ins., X.....	2.00	17.50
Boxwood, Japanese, 2-yr., R. C.....	8.00	
6 to 8 ins., X.....	2.00	16.50
8 to 10 ins., X.....	3.00	27.50
10 to 12 ins., X.....	3.75	32.50
Buxus Sempervirens.....	2.00	17.50
4 to 6 ins., X.....	2.00	17.50
Buxus Sempervirens.....	2.50	22.50
Buxus Suffuticosa, 3 to 4 ins., X.....	17.50	
4 to 6 ins., X.....	17.50	
6 to 8 ins., X.....	22.50	
Ilex Convexa (Box Leaf Holly), R. C.....	8.00	
4 to 6 ins., X.....	17.50	
6 to 8 ins., X.....	2.50	22.50
8 to 10 ins., X.....	4.00	35.00
Ilex Crenata, R. C.....	8.00	
4 to 6 ins., X.....	17.50	
10 to 12 ins., X.....	4.50	40.00
Ilex Rotundifolia, R. C.....	8.00	
Ilex Rotundifolia, 4 to 6 ins., X.....	2.00	17.50
Juniper, Andorra, 4 to 6 ins., X.....	2.00	17.50
6 to 8 ins., X.....	3.50	22.50
8 to 10 ins., X.....	3.00	25.00
Juniper, Hetz, R. C.....	9.00	
Juniper, Hetz, 4 to 6 ins., X.....	2.00	17.50
Juniper, Pfister, Compact, 6 to 8 ins., X.....	3.25	30.00
Retinospora Obtusa Cripps, R. C.....	8.00	
Retinospora Obtusa Cripps, 4 to 6 ins., X.....	2.00	17.50
Retinospora Plisifera Aurea, 4 to 6 ins., X.....	2.00	17.50
Retinospora Plumosa, 4 to 6 ins., X.....	2.00	17.50
Retinospora Squarrosa, 4 to 6 ins., X.....	2.00	17.50
Taxus Capitata (From Seed), 4 to 6 ins., T.....	3.25	27.50
Taxus Cupidata, 4 to 6 ins., X.....	2.00	17.50
Taxus Hatfieldi, 4 to 6 ins., X.....	2.00	17.50
Taxus Hicksi, 4 to 6 ins., X.....	2.50	18.50
Taxus Vermuelen, 4 to 6 ins., X.....	2.25	17.50
Taxus Vermuelen, 6 to 8 ins., X.....	3.50	22.50
Taxus Browni, 4 to 6 ins., X.....	2.25	17.50
Taxus Browni, 6 to 8 ins., X.....	3.50	22.50

ESHAM'S NURSERIES  
Frankford, Del.

## AZALEAS

Transplanted rooted cuttings our specialty.  
Hinodegiri - Amoena - Indica Alba and  
named Kaempferi Hybrids, all colors.  
\$16.50 per 100; \$140.00 per 1000  
Hinodegiri and Kaempferi varieties.  
2-yr. bed-grown, 4 to 6 ins., B&B.....50c each  
3-yr. bed-grown, 6 to 8 ins., B&B.....70c each  
Field-grown varieties.  
Hinodegiri, Kurume varieties, Kaempferi  
and others, such as: Snow, Cleopatra, Othello,  
Betty, Mauve, Flame, Yodogawa, Indica Alba,  
Hinomayo, Mary and Amoenia.

12 to 15 ins., B&B.....\$2.00 each per 10  
15 to 18 ins., B&B.....2.75 each per 10  
2.25 each per 100

## EVERGREEN ROOTED CUTTINGS

FROM GREENHOUSE  
Taxus, Juniper pfitzer, Juniper Hetz, Juniper  
stricta, Arborvitae, Retinospora, Pyra-  
cantha, Ilex and Andromeda.  
\$10.00 per 100; \$90.00 per 1000.

DOGWOODS (Young Specimen Material)

White Dogwood, Each Per 10 Each Per 100

4 to 5 ft., B&amp;B.....\$4.75 \$4.25

5 to 6 ft., B&amp;B.....6.00 5.00

6 to 7 ft., B&amp;B.....8.50 7.00

Pink Dogwood.....

2 to 3 ft., B&amp;B.....3.50 3.25

3 to 4 ft., B&amp;B.....6.00 5.50

Weeping Willow (Salix Babylonica).....Each

Well-formed trees, 10 to 12 ft., B&amp;B.....\$9.50

The above prices are dug, F.O.B. our nursery.

DEKALB NURSERIES, INC.

Box 67, Norristown, Pa.

Phone: Norristown 5-1597

Each Each

Per 10 Per 100

Beauty Bush, 18 to 24 ins.....\$0.50 \$0.45

2 to 3 ft......00 .55

Lilac, Rothomagensis.....

18 to 24 ins......40 .35

2 to 3 ft......50 .45

Rhubarb, Canadian. Strong divisions. \$25.00

per 100. 300 or more at \$22.50 per 100. Cash.

We cannot afford to sell small quantities

of these and pack them. There are offered

to be shipped by truck or car only.

C. HOOGENDOORN

Turner Road Newport, R. I.

Wholesale price list—Spring, 1953  
DECIDUOUS STOCK

	100	1000
500 Aralia pentaphylla, 2 to 3 ft.....	\$0.45	
40 Cercis canadensis, 3 to 4 ft., bare-root, T.....	1.15	
200 Cornus alba sibirica, 3 to 4 ft.....	.50	
300 Forsythia intermedia, 2 to 3 ft.....	.40	
2000 Forsythia spectabilis, 2 to 3 ft.....	.40	\$0.35
3000 Forsythia spectabilis, 18 to 24 ins.....	.25	
1000 Lonicera tatarica, true, 2 to 3 ft.....	.55	.50
1500 Lonicera tatarica, rosea, 3 to 4 ft.....	.55	.50
600 Philadelphus Atlas, 3 to 4 ft.....	.60	
150 Philadelphus Virginian, 2 to 3 ft.....	.50	
500 Spiraea foebeli, 2 to 3 ft.....	.45	
6000 Spiraea vanhouttei, 18 to 24 ins.....	.25	.20
700 Virginia Creeper, 2-yr.....	.20	
8000 Forsythia spectabilis.....	.07	.06
1000 Lonicera tatarica, rosea.....	.07	.06

SPRINGSIDE GARDENS

Hamden, Conn.

Tel. New Haven FU 7-6263

Magnolia grandiflora, potted last spring,

except the 2 1/2-in., which were done last

August. Present seedling crop going to pots

January 1, and will be ready March 15. Ex-

pect to fill orders for 2 1/2-in. until August

potting exhausted, then start with January 1

potting.

Per 100

2 1/2-in. pot, 2 ins. and up.....\$15.00

3-in. pot, 6 to 10 ins.....20.00

4-in. pot, 8 to 12 ins.....35.00

4-in. pot, 12 to 18 ins.; few left.....50.00

Gallon cans and larger at nursery.

Per 100

2-yr., row-run, 1 bed, 8 to 18 ins.....\$20.00

2-yr., row-run, 1 to 3 ft.....30.00

2-yr., 12 to 18 ins.....25.00

2-yr., 18 to 24 ins.....40.00

2-yr., 2 to 3 ft.....50.00

Cash with order and no charge for packing.

Shipment of bare-root items until about April

10.

HARWELL NURSERY Van Buren, Ark.

## LINING-OUT STOCK

Per 100

10,000 Azalea Mollis (Chinese Azalea),

from Seed, Mixed Colors,  
2-yr., X.....\$18.004,000 Ilex Convexa (Bullata), 1-yr., X,  
4 to 6 ins.....20.00

1,000 6 to 8 ins.....25.00

15,000 Rooted cuttings (Jum. 1),  
700 Taxus Densa, 4-yr., XX.....10.00

9 to 12 ins.....65.00

200 Taxus Hatfieldi, 4-yr., XX,  
12 to 15 ins.....65.00

1-YR. BEDDED OUTDOORS

10,000 Taxus Cupidata.....15.00

2,000 Taxus Henryi.....15.00

1,000 Taxus Hicksi.....15.00

Cash with order, 2 per cent discount.

Free Packing.

BROOKFIELD GARDENS

Rt. 46 Delaware, N. J.

## OUR OWN GROWING

B&amp;B Per 100

500 Pfitzer Junipers, 30 to 36 ins.....\$450.00

100 Hetz Junipers, 30 to 36 ins.....450.00

100 Hetz Junipers, 24 to 30 ins.....375.00

100 Hetz Junipers, 18 to 24 ins.....325.00

100 Euonymus Patens, 4 ft. by 3 ft.....600.00

Euonymus Patens

Field-grown, bare-root.

500 Euonymus Patens, 18 to 24 ins.....75.00

500 Euonymus Patens, 15 to 18 ins.....50.00

BRUNING'S NURSERIES

Higginsville, Mo.

## FOREST TREE SEEDLINGS (Collected)

Sugar Maple Per 1000

4 to 6 ins.....\$10.00

6 to 12 ins.....20.00

12 to 18 ins.....40.00

White Birch (Betula Populifolia)

1 to 2 ft.....25.00

2 to 3 ft.....35.00

Good stock, carefully collected and well-

packed.

Cash, please.

R. M. COLE

Box 37 Charlotte, Vt.

## CLARK DWARF APPLE GRAFTS

Per 100 Per 1000

3000 Callused. Can be budded

in August.....\$35.00 \$325.00

Flowering Crab Grafts:

500 Almey.....20.00

500 Hops.....10.00

500 Red Silver.....10.00

500 Rosy Bloom, MR-451.....20.00

100 Rosy Bloom, MR-455.....20.00

WHEELOCK WILSON NURSERY

Marshalltown, Ia.

## PRIVET

Thousands Amur River North 12 to 18 ins.,

\$2.00 per 100; 2 to 3 ft., \$4.00 per 100; 4 to 6

ft., \$5.00 per 100.

Attractive price on 1000 or more lots.

WOODLAWN NURSERY

Greenville, Ga.

Wistaria Sinensis (blue), strong 3-yr.  
grafts, field-grown. This is the true Sinensis  
which has the short truss and deeper color.  
It blooms heavily before any foliage appears  
and also blooms intermittently throughout  
the summer.

Wistaria Rosea (pink), strong, 3-yr. grafts,  
field-grown. All these scions were taken from  
heavy-flowering plants.

C. HOOGENDOORN

\$125.00 per 100.

Turner Road Newport, R. I.

Russian Mulberries, 4 to 5 ft., \$1.00 each.

Per 100

Chinese Chestnut (blight resistant),  
3 to 4 ft.....\$60.00

4 to 5 ft.....70.00

5 to 6 ft.....80.00

6 to 7 ft.....90.00

If less than 10 trees are ordered, please

add 10c per tree for packing; more than 10

trees, packing free.

Phone 378

HOME NURSERY CO. Fort Gay, W. Va.

Each

BERBERIS THUNBERGI

24 to 30 ins.....30c

30 to 36 ins.....35c

BERBERIS THUNBERGI

ATROPURPUREA

24 to 30 ins.....35c

30 to 36 ins.....40c

ENNIS FLORIST

Steubenville, O.

## AMUR RIVER NORTH PRIVET

Excellent stock, well-bred.

Per 100 Per 1000

12 to 18 ins.....\$3.00 \$20.00

18 to 24 ins.....4.00 25.00

2 to 3 ft.....6.00 30.00

3 to 4 ft.....6.00 40.00

Orders filled promptly.

TIDWELL NURSERIES

Greenville, Ga.

## CRAB APPLE GRAFTS

ELEVI

DOLGO

BOP

\$10.00 per 100. \$85.00 per 1000.

Prepaid for cash with order.

We do contract grafting. Write for

particulars.

PRITCHARD NURSERIES, Route 4.

Ottawa, Kan.

## CHINESE ELM

Per 10 Per 100

4 to 5 ft.....\$ 6.00 \$ 50.00

5 to 6 ft.....8.50 75.00

6 to 8 ft.....12.50 110.00

8 to 10 ft.....20.00 175.00

10 to 12 ft.....35.00 300.00

WAYNESBORO NURSERIES

Waynesboro, Va.

## CHINESE CHESTNUTS

From Best U. S. D. A. Strains

Per 100

18 to 24 ins., 1-yr.....\$25.00

12 to 18 ins., 1-yr.....16.00

6 to 12 ins., 1-yr.....10.00

2 to 2 1/2 ft., mailing size.....35.00

25 at 100 rate.

WHITFORD NURSERY Farina, Ill.

## FLOWERING PEACH—Pink, Red, White

Per 10 Per 100

2 to 3 ft.....\$ 5.00 \$45.00

3 to 4 ft.....6.00 60.00

4 to 5 ft.....8.00 75.00

5 to 6 ft.....10.00 90.00

WAYNESBORO NURSERIES

Waynesboro, Va.

ZABELI HONEYSUCKLE—Heavy, excel-

lent stock, machine dug, at a bargain, 4 to 5

ft., 40c; 5 to 6 ft., 45c. Cash with order.

Free packing. Place your order early at these

low prices.

HOME NURSERY La Fayette, Ill.

Hardy northern-grown L. O. and finished

stock, B&amp;B Colorado Blue Spruce. Shrubs,

Perennials, Hardy Ferns and Hedging.

Satisfaction Guaranteed. Write or Wire:

PIEDMONT PLANT CO.

Box 946, Albany, Ga.

## WATCH YOUR RESULTS FROM

American Nurseryman Classified Ads.

## VEGETABLE PLANTS

WHOLESALE PRICE LIST, 1953

Plant variety Vegetable Plants

Date ready

Per 1000

Cabbage Now \$2.00

Collards Now 2.00

Onion Now 1.25

Lettuce Now 3.50

Broccoli March 15 2.

## VEGETABLE ROOTS

**ASPARAGUS ROOTS**  
We are the largest growers of asparagus roots in America. The continued increase in demand for our roots is ample proof of our customers' satisfaction. Our asparagus has made a very good growth again this season, and test digging from various farms indicates the crowns will average better in quality than ever before.

**MARY WASHINGTON ASPARAGUS**  
Per 25 Per 100 Per 250 Per 1000  
3-year, No. 1 grade...\$1.25 \$4.00 \$5.75 \$20.00  
2-year, No. 1 grade... 1.00 3.00 5.75 20.00  
1-year, No. 1 grade... .75 2.50 4.25 14.00

Write for special prices on quantity lots. We can quote even more attractive prices than those specified in this advertisement to buyers interested in large quantities.

**FREE PACKING FOR CASH WITH ORDER.** Our regular wholesale list offers a complete line of nursery stock. If you failed to receive your copy, write us today. When requesting wholesale prices, kindly use your printed stationery indicating you are entitled to trade rates.

**HUNTINGS' NURSERIES, INC.**  
Box 3, Selbyville, Del.

## ASPARAGUS ROOTS

Per 100 Per 250 Per 1000  
Mary Washington  
3-year, heavy.....\$4.00 \$5.75 \$20.00  
2-year, No. 1..... 3.00 5.75 20.00  
1-year, No. 1..... 2.25 4.00 14.00

**E. W. HUEBNER NURSERY**  
Stevensville, Mich.

**ASPARAGUS ROOTS, 1-yr., No. 1.**  
**MARY WASHINGTON AND PARADISE.**  
Chipman's strain Canada Red rhubarb.  
No. 1 divisions.

**CHAPMAN'S BERRY FARM**  
East Leroy, Mich.

## VINES

### HONEYUCKLE

Lonicera halliana Japonica  
Heavy 2, 3 and 4 yrs., No. 1 field plants,  
3 to 4 leads, 18 to 24 ins., carefully graded.  
\$4.00 per 100, \$30.00 per 1000.

Lonicera sempervirens, Scarlet-red.  
Heavy 18 to 24 ins., \$10.00 per 100, \$80.00 per 1000. No orders too large; immediate shipment.

**WOODLAWN NURSERY**  
Greenville, Ga.

### HONEYUCKLE

Lonicera Halliana Japonica, extra-heavy,  
strong, fibrous-rooted, 2 to 3 yr., 3 or 4  
18 to 24-in. leads, field plants; graded by  
experienced labor, \$40.00 per 1000, \$5.00  
per 100. Can supply quantity orders.

Immediate shipment

**ROBINSON NURSERY CO.** Greenville, Ga.

### CLEMATIS MONTANA RUBENS

(Pink-flowering Anemone clematis)  
Strong field-grown plants  
3 to 4 ft. staked  
\$100.00 per 100.

**C. HOOGEENDOORN**

Turner Road Newport, R. I.

Hall's Honeyuckle, large, extra-heavy, 2  
and 3-year plants, carefully graded, \$4.00 per  
100; \$30.00 per 1000. Good reduction on quantity  
orders. Immediate shipment.

**TIDWELL NURSERIES, Greenville, Ga.**

## MISCELLANEOUS

40 Acres of Finished Nursery Stock Each  
100 Althaea, double, red, 4 ft.....\$0.65  
100 Althaea, double, white, 4 ft..... .65  
5000 Althaea, single, mixed, 3 to 4 ft..... .50  
200 Buttonwood, 7 to 10 ft..... 2.00  
800 Cydonia Japonica, upright, red,  
3 ft..... 1.50  
1000 Deutzia, 3 to 4 ft..... .65  
1000 Chinese Elms, 6 to 10 ft..... 2.00  
5000 Forsythia, 3 to 5 ft..... .65  
200 Concord Grapes, 4-yr., bearing age  
500 Variegated Leaf Hedge,  
18 to 36 ins..... .50  
200 Mimosa, 6 ft. tall, 6-ft. spread..... 2.00  
1000 Double Red-flowering Peach,  
6 to 8 ft., bushy..... 4.00  
25 Plum, Burbank, 8 ft., bearing age 2.00  
1000 Prunus Newport, 6 ft., bushy..... 4.00  
1000 Spiraea Vanhouttei, 3 ft..... .60  
5000 Weigela Rosea, 3 ft..... .65  
100 Weeping Willows, 6 to 9 ft..... 1.00

Several Other Items

**WENTZELL'S NURSERY**

Phone Elmer 8-7891 Wenonah, N. J.

5000 Althaea, Mixed singles, 4 ft..... Each  
1000 Deutzia, Pride of Rochester,  
4 ft..... 1.00  
5000 Forsythia Spectabilis, 3 to 4 ft..... .65  
5000 Forsythia Spectabilis, 4 to 5 ft..... 1.00  
500 Magnolia Nigra, 4 ft..... 1.50  
1000 Double Red-flowering Peach,  
5 to 6 ft., B&B..... 4.00  
500 Philadelphia Virginia, 2 ft..... .35  
50,000 California Privet Hedge,  
1-yr., br..... .03 1/2  
1000 Prunus Newport, well-branched,  
5 to 6 ft., B&B..... 4.00  
500 Upright Quince, 3 to 3 1/2 ft..... 2.00  
2000 Spiraea Vanhouttei, 3 ft..... .75  
3000 Weigela Rosea, 3 ft..... .75  
5000 Yews, Mostly upright,  
3 yr. in field..... 3.75

**WILLIAM E. WENTZELL**

Cattell Road Wenonah, N. J.

Rosa Multiflora Japonica Thornless—is the  
best for budding purposes. 30,000 12-in. cuttings,  
handmade. \$3.00 per 100; \$10.00 per 1000.

French Pussy Willow, 2-yr., 3 to 5 ft. Per  
10, \$5.00; per 100, \$40.00.  
**FINGER LAKES NURSERIES** Geneva, N. Y.

Turn Stock into Dollars  
by Listing It in the Classified Ads  
of the American Nurseryman.

## WANTED

### WANTED

Strawberry Plants—Dunlap, Blakemore,  
Premier, Robinson in 50,000 lots. Quote best  
prices and date shipment can be started.

Address Box 242,  
care of American Nurseryman.

### WANTED

Two ACTINIDIA KOLOMIKTA, male plants

**WOLFE GARDENS**  
Alsea, Ore.

### WANTED

**CHRYSLER IMPERIAL ROSES—No. 1**  
If you have any amount of Chrysler Imperial No. 1 from 20 to 500, wire or phone collect. Northern or California-grown only.  
**STANEK'S NURSERY**  
E. 2929 29th Ave. Spokane, Wash.

### WANTED

60 Moline Elm or Elms similar to Moline  
Elm at 5-ft. height, at once.  
**CAPITOL GARDENS, Oklahoma City, Okla.**

## SUPPLIES

### BURLAP

#### NURSERY BURLAP

Burlap squares and sheets for balling purposes, made from selected used burlap and bags free of oil, smell or chemical stock. All vacuum machine cleaned and holes sealed up. We also have a supply of open mesh onion bags in sheet form, measuring 33x36 ins. Samples and prices cheerfully submitted on request.

**STERLING BAG & BURLAP CO.**  
41 Carolina St. Buffalo 1, N. Y.

Advertisers' Experience Shows  
American Nurseryman Classified Ads  
Bring Results.

### FLATS

#### FLATS

**MINNESOTA WHITE CEDAR FLATS**  
No. 1, 14x20x3/4.....\$24.00  
No. 2, 14x20x3/4..... 27.75  
No. 3, 12x16x3/4..... 18.50  
No. 4, 12x16x3/4..... 21.75  
No. 5, 14x16x3/4..... 20.75  
No. 6, 14x16x3/4..... 24.50  
No. 7, 16x22x3/4..... 27.25  
No. 8, 15x22x3/4..... 31.50  
No. 9, 11x22x3/4..... 23.00  
No. 10, 11x22x3/4..... 25.00  
No. 11, 13x16x1/2..... 30.00  
No. 12, 5x5x16..... 16.00  
No. 13, 5x5x16..... 18.50

5 per cent discount on orders of 1000 or more.

The above sizes are inside. Bottoms and sides are 1/2 in. and ends are 3/4 in. thick. All material surfaced on one side. All shipments by truck unless otherwise ordered.

Your name and address printed up to three lines in black, weather and waterproof ink, on one or both end pieces at the following rates: \$1.00 set up charge plus 1/2 cent per end piece for the first 1000 ends, 1/4 cent per end thereafter.

Shipped knocked-down in bundles of 25.  
F.O.B. Cook, Minn. Attach check. Order by number.

**H. C. HILL & SONS, Cook, Minn.**

#### FLATS

Made from a good grade of Southern Yellow Pine dipped in Rot Not wood preserver for longer life.

Standard specifications, inside measurements.  
16 x12x3/4.....\$20.35 per 100  
16 x14x3/4..... 27.05 per 100  
20 x14x3/4..... 26.61 per 100  
20 x14x3/4..... 31.07 per 100  
22x15x3/4..... 30.49 per 100  
22x15x3/4..... 35.35 per 100  
All other sizes quoted on request. Prices F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of Flats, Plant Boxes and Spray Boards. Write for our price list on these items. Attach check to order.

**HIGHTOWER BOX & TANK CO.**

P. O. Box 1449  
Birmingham 1, Ala.

APRIL 15, 1953

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### REDWOOD FLATS, K. D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x16x3 ins. inside measure, \$42.00 per 100.

1x1-in. Cypress stakes, pointed.  
50 pcs. to bundle, 4 ft., \$2.50 per bdl.  
50 pcs. to bundle, 5 ft., \$4.50 per bdl.  
50 pcs. to bundle, 6 ft., \$5.50 per bdl.  
Ship same day. Cash with order, please.  
**YOHO & HOOKER, Youngstown 2, Ohio**

## HAY

**MARSH HAY FOR MULCHING**  
Clean; no weeds. Truckloads or carloads.  
**KOPFF HAY CO.**  
Beaver Dam, Wis.

## ORCHID SUPPLIES

**OSMUNDA:** Fresh-cut "live" fiber at all times.  
Professional bag, \$2.50; Bushel, \$5.00  
Standard Bale, \$12.00

**PLASTIC LABELS—Copper or nickel-bearing Wire.**

Pot, 1/2 by 3 1/2 ins.....	100	500	1000
Pot, 1/2 by 4 ins.....	\$1.50	\$4.95	\$ 9.50
Orchid Spec., 1/2 by 4 1/2 ins., red, blue, green, yellow and white.....	1.95	7.95	15.00
Wired, 1/2 by 2 ins., white.....	2.10	8.95	16.00
1/2 by 3 1/2 ins., white.....	1.95	7.95	15.00
1/2 by 3 1/2 ins., blue, green, red and yellow.....	2.15	9.00	17.00
White Strap Label, 1/2 by 6 1/2 ins.....	2.25	9.45	18.00
Special.....	2.10	8.95	16.00

**NEW PRICE—ORIGINAL BUBBLE VASE LAPEL PINS, \$1.25 doz. 2, 3, 5-in. Orchid tubes with rubber caps, 60c per doz., \$4.10 per 100.**

**WRIGHTWOOD FLORAL CO., INC.**  
2407 N. Main St. Houston 3, Tex.  
Prices F.O.B. Houston. Subject to change without notice.

## STAKES

### EVERLAST

#### CYPRESS PLANT STAKES

For Evergreens—Shade Trees—Dahlias— and wherever heavy stakes are required. These are the strongest, straightest, most durable and long-lasting plant stakes you can buy. Especially cut from sun-cured, Florida Tidewater Cypress — "The Wood Eternal." Each stake is approximately one inch square with a sharp point at one end.

"Well-worth the difference."

Packed in units of 81 stakes  
F.O.B. New York F.O.B. Florida  
4 feet long.....\$10.00 \$ 8.50 per unit  
5 feet long..... 11.50 10.00 per unit  
6 feet long..... 12.50 11.50 per unit

**EXTRA-HEAVY STAKES**

4 feet long, 1 1/2 x 1 1/2 ins.....\$19.00 per 100

F.O.B. Florida

Minimum order 100 Stakes.

**McHUTCHISON & CO.**

95 Chambers St. New York, N. Y.

#### CYPRESS PLANT STAKES

50 Pieces to Bundle.  
1x1-in.—3 ft., pointed.....\$2.50 per bundle  
1x1-in.—4 ft., pointed..... 3.50 per bundle  
1x1-in.—5 ft., pointed..... 4.50 per bundle  
1x1-in.—6 ft., pointed..... 5.50 per bundle  
1x1-in.—7 ft., pointed..... 7.00 per bundle  
These stakes are made of cypress and redwood, are good, strong stakes and will give long service. "A little better than seems necessary."

**WE SHIP SAME DAY!**  
**YOHO & HOOKER**  
Youngstown, Ohio

**STAKES, GALVANIZED HARD STEEL.**  
**STAKE FASTENERS AND COTTON TWINE.**

Prices and samples sent upon request.  
**SCHUPP SUPPLY CO., Wilmette, Ill.**

## RUBBER BUDDING STRIPS

### RUBBER BUDDING STRIPS

The fast, safe way.  
Strips 4 and 5 in. long. Special, \$1.00 per lb.  
Free Samples.  
**THE M. CONLEY CO.** Canton, O.

## SPHAGNUM MOSS

### WISCONSIN'S QUALITY SPHAGNUM MOSS

Clean, long-fibered, solidly packed in burlapped or wired bales of standard size, direct from drying beds. None better. Trucked when feasible.

**WARRENS MOSS CO., Box 7, Warrens, Wis.**

### SUPERIOR-QUALITY SPHAGNUM

Burlap or wire-bound. Our bales are superior throughout. Prices on carlots and less, upon request.

**NORTH AMERICAN MOSS CO.**  
610 Lincoln St. Wisconsin Rapids, Wis.

## MISCELLANEOUS

### GOSLINGS

Cut labor costs. Use goslings to weed seed-beds, shrubs, evergreens, roses and other plantings. Also orchards, vineyards, berries, etc. Free booklet tells how.

Heart of Missouri Poultry Farm  
Route 4N Columbia, Mo.

## WANT ADS

Help and Situation Wanted and For Sale Advertisements.

**Display: \$3.50** per inch, each insertion.

**Lines: 30¢** line; minimum order **\$3.00.**

### HELP WANTED

#### LANDSCAPE FOREMAN

We want an experienced man with thorough knowledge of plant materials, transplanting methods, etc. Must be capable of supervision of crews and able to read and carry out plans.

We are a leading and rapidly growing midwest nursery and landscape organization. Write your qualifications fully and indicate a time convenient for interview. Top salary and incentive plan.

**THE SECOR LANDSCAPE CO.**  
3340 Secor Road  
Toledo 6, O.

### HELP WANTED

#### PROPAGATOR

Experienced propagator of ornamental stock is desired for our Appliance Park, Beuchel, Kentucky. This is a new plant which offers good opportunities for advancement and excellent employee benefits. State full particulars in first letter as to age, education, employers and experience, present wages and salary expected. Please address letter to: Wm. M. Duffy, Personnel Department, General Electric Co., Beuchel, Ky.

### FOR SALE

Two-acre nursery and landscaping service in midwest city of 35,000. Only locally owned nursery, 1 1/4 miles from city on good road. Lots of new construction. Nursery sales on cash-and-carry basis; lawn, maintenance and tree work. All equipment and some nursery stock on land for spring. Modern 5-room ranch house and other buildings also available or business may be had separately. Terms. Reason for sale: Owner has other interests. Address Box 957, care of American Nurseryman.

### HELP WANTED

Salary, commissions and bonuses to young men of initiative, industry and honesty who can make acceptable landscape plans, sell the jobs and supervise their execution. Ability in nursery management would be an asset.

Send us the information you would want yourself if you owned a rapidly growing landscape nursery in the midwest and needed men who could grow into management jobs.

Write: Box 954,  
care of American Nurseryman.

### HELP WANTED

#### PRODUCTION FOREMAN

To take charge of propagating and growing a complete line of hardy ornamental nursery stock for 100-acre nursery. Established since 1898. Permanent position. Modern 5-room house, convenient to work.

All replies will be treated with complete confidence. Contact **TROY'S NURSERIES, INC.**, Bedford Village, N. Y. Phone BEDford Village 4-3400.

### FOR SALE

Space in these columns is for sale at low cost to nurserymen who wish to dispose of property, seek positions or secure new employees. In the American Nurseryman, your advertising is directed to those whom you wish to interest at a minute fraction of the cost of contacting them in any other way. Every issue of the magazine is read by more than 7,000 of the nation's nurserymen, giving the advertiser the maximum opportunity for successful results. Next time you have a problem which may be solved in these columns, send your want ad copy to

**AMERICAN NURSERYMAN**  
343 S. Dearborn St.  
Chicago 4, Ill.

### HELP WANTED

Gardener for small estate. Permanent position for experienced, middle-aged man at Camden, S. C. Thorough knowledge of azaleas, camellias and ornamentals required. Must be experienced in all phases of greenhouse operation, including plant propagation. Living quarters available on premises. Please state experience and furnish necessary references and salary expected. Address Box 958, care of American Nurseryman.

### HELP WANTED

#### EXPERIENCED PROPAGATOR

Excellent position in wholesale propagating nursery for an alert and progressive man, well-experienced in ornamentals. Good salary, benefits, pleasant conditions, rural setting (New York City and Philadelphia close by) and other benefits. Established in 1921 and still growing. Please write:

**JOHN VERMEULEN & SON, INC.**  
Neshanic Station, N. J.

### FOR SALE

Evergreen nursery 15 miles north of Pittsburgh in expanding territory. 1 1/4 acres, 4000 evergreens, shop with full basement, small greenhouse with automatic gas hot-water heat, 8 coldframes, shade house, 1 1/2-ton truck, Rototiller and all tools, 5-room 1 1/2-story frame house built in 1941, integral garage. Must sell—a reasonable offer. Write: Bill Fetterhoff, R. D. 2, Gibsonia, Pa.

### FOR SALE

#### OR RENT

Small nursery in popular Long Island community. Ideal for a garden supply center. A good setup for a landscape contractor.

**LAUREL NURSERY**  
311 Jericho Turnpike  
Floral Park, L. I., N. Y.

### HELP WANTED

Middle-aged landscape gardener for small nursery in Pennsylvania. Good working conditions. House available. Write, stating salary and experience. Open April 1. Address Box 933, care of American Nurseryman.

### HELP WANTED

Experienced propagator for nursery stock.

**DE KALB NURSERIES, INC.**  
Box 67, Norristown, Pa.  
Phone: NO. 5-1597

### SITUATION WANTED

Horticulture school graduate, nursery management major. Ten years' experience with plant material—propagation, soils, woodland improvement, shrubs, roses and perennials. Desire position managing small retail or wholesale nursery or large estate in New England or vicinity. Address Box 955, care of American Nurseryman.

### HELP WANTED

#### PROPAGATOR

Experienced in the propagation of evergreens and ornamental stock in greenhouse and outdoors.

**BUNTINGS' NURSERIES, INC.**  
Selbyville, Del.  
Phone 2321

### HELP WANTED

Nursery-landscape foreman. Baltimore territory. Opportunity later as partner in well-established nursery. Full reply and salary expected. Address Box 927, care of American Nurseryman.

### HELP WANTED

Tree experts on cavity and general tree work. Top pay. Can also use landscape men and nurserymen. Top pay.

**LAUREL NURSERY**  
311 Jericho Turnpike  
Floral Park, L. I., N. Y.  
Phone: Floral Park 4-9708

### HELP WANTED

#### MANAGER

Need manager with experience in landscape designing, growing and sales, including retail sale of potted stock. If you really have merchandising and sales ability, this opening offers great possibilities. Highway location near good small city in Missouri. Write Box 956, care of American Nurseryman.

**HELP WANTED**—Landscape architect or salesman capable of drawing plans, meeting the public and selling. Give full particulars, age, experience and salary expected. Permanent position to the right man. **BRIGGS NURSERY**, 207 E. Cedar St., Pocatello, Ida.

**FOR SALE**—New Jersey landscape nursery-garden center. So. Orange area. On busy road near large shopping center. Est. 20 yrs. Does \$125,000, shows high profit. 1 acre, fine retail display, greenhouses and grounds. Business and property value \$100,000. Offer now at \$65,000 on good terms. Write Mitchell W. Smith, Horticultural Realty Co., 36-52 Main St., Flushing 54, L. I., N. Y.

**FOR SALE**—Landscaping and/or tree surgery business, with or without equipment. This is a gold mine for the right person. For complete information, write: **TREE SERVICE**, Box 705, South Norwalk 17, Conn.



## WHY NOT OPEN EVENINGS?

[Continued from page 12]

in some cases it may be necessary to have a little part-time help to piece out the schedule. This, it is true, may be difficult in the nursery field, but it seldom takes much effort to develop a workable schedule.

### Employee Dissatisfaction Rare

As for employee dissatisfaction, it seems to be rare. One way to help gain employee acceptance of night hours is to have the employees included in the conference which determines how the evenings will be allotted, with ample time for all to express their ideas. Also, it is generally noticed that when salesmen are on a commission basis, there is competition for evening hours.

The final factor to consider is how many nights, and which nights, to be open. There is no definite answer to this. In department stores the trend started with one night and, in most localities, stores now remain open two nights. Whether more are needed is open to question. Monday is generally accepted by department stores as a good night, and either Thursday or Friday serves as the second. Surprisingly, many customers prefer Thursday to Friday. In the nursery field these choices may not be suitable. However, if nurserymen accept the nights that are general in their locality, they benefit from the traffic provided by the already accepted pattern. It seems to me, though, that Monday might not be a wise choice as it is far from the week end. Maybe this estimate is not correct, even though it sounds logical. Friday night would seem ideal, for the gardener would then have his materials fresh for the week-end projects. Thursday should also be a good night. The point to emphasize is that, all too often, openings are based on assumptions and guesses rather than on known facts. When these assumptions are checked, they are often found to be wrong. A check with customers, local garden clubs and the general public should help nurserymen steer a correct course and save many headaches.

### Advertise Late Openings

The project of late openings will not be enough by itself to insure added sales. Customers must be advised about this added service and, more important, the general public must learn of it as well. One of the big benefits of the extended hours should be the making of new customers.

It is improbable and unnecessary

# PREMIER PEAT MOSS

does

**MORE**  
for  
all soils!

The  
**All-Organic**  
**Soil**  
**Conditioner**

You can  
**USE IT**  
**ALL**  
**YEAR**

**MORE**  
in gardening-  
mulching, etc.

You can  
**SELL IT**  
**ALL**  
**YEAR**

**MORE**  
for customers  
-and for you!

Premier Peat Moss gives top results in soil conditioning because it's tops in *absorbency* and therefore assures perfect aggregation and increases aeration. And at the same time it supplies the *organic* material that is essential for good structure, germination and growth.

It's *always* the season for Premier Peat Moss because Premier can be used right through the year—for soil conditioning **PLUS** mulching, transplanting, seedbeds, liner beds, etc. It will give you better results—and bigger *re-sales*—month after month.

In packages for every need—from 1-pot bags to big bales. Write today for prices on Canadian and European Premier Peat Moss.

**PREMIER PEAT MOSS CORP.**  
535 Fifth Ave., New York 17, N. Y.

**BIG-VALUE**  
**BALES**

**BAGS AND**  
**CARTONS**

(filled  
or  
unfilled)



## Specialists to the Nursery Trade

# BURLAP

Squares      Rolls      Open Mesh  
Standard sizes or made to your specifications.  
Immediate attention to inquiries.

**SEAMAN BAG COMPANY**  
2512 S. Damen Ave. CHICAGO 8, ILL.  
Virginia 7-6633

### PROFITABLE TREE WOUND HEALER

C-4 BLACK TREE WOUND PAINT effectively seals and stimulates natural bark growth over wounds caused by grafting, pruning or torn bark. Your discount—40% off retail prices of \$1.25 qt.—\$2.75 gal. Packed 12 qts. or 4 gals. Order a case today!

**COOPERS CREEK CHEMICAL CORP.**  
Nursery Dept. CONSHOHOCKEN, PA.

## GARDEN CLUB SHRUBBERY PROTECTOR



### SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passers-by. Each SHRUB-GARD has three prongs and covers approximately two and one half lineal feet.

Harmless to dogs or humans.  
Packed one dozen to a carton, weight 2 lbs.  
Retail price \$3.75 per dozen.

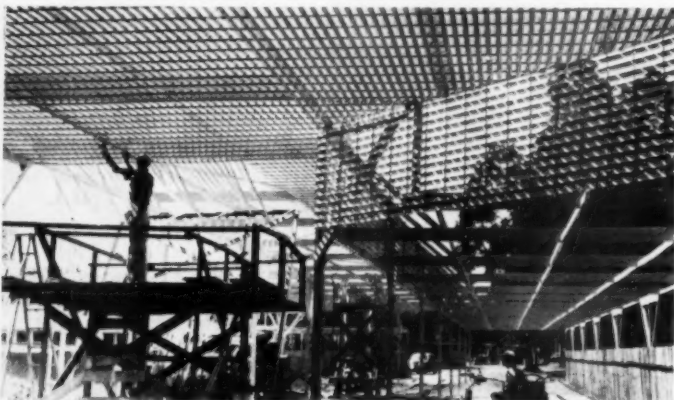
**THOMAS J. MAGEE**

631 E. WADSWORTH AVE. PHILADELPHIA 19, PA.

# ALUMALATH

## Costs No More Than Wood Construction and You Have Aluminum Construction of Beauty.

It is long-lasting, fireproof, will not warp and assures uniform sun control. It cannot be equaled by any other material.



43,000 sq. ft. of AlumaLath used in Hall of Flowers at California State Fair.

The lightweight simplicity of assembly (no nails used) not only speeds up the job, but cuts labor cost to the minimum.

**GREENHOUSES**—The uniform control of the sun intensity gives perfect plant protection. The high gloss finish reflects the sun's heat rays, and the special AlumaLath design assures complete ventilation. Many users have eliminated all shade painting of the glass.

AlumaLath is the perfect shading for every purpose—be it a large or small lath house, greenhouse, patio, outdoor merchandise display, or shading around swimming pools where decorative appearance is required.

## IF YOU NEED SHADE, YOU NEED ALUMALATH

**DEALERS**—Improve the appearance of your surroundings with AlumaLath and add to your profits by selling to your customers.

Write for details.

# HARRY H. REYNOLDS

2561 Valencia St.

SANTA ANA, CALIF.

**TREES FOR AMERICAN GARDENS**, by Donald Wyman. 745 recommended trees, 1600 species and varieties. **\$7.50.** American Nurseryman, Chicago 4, Ill.

## GRAFT WAX

FOR GRAFTING AND  
WOUND FILLING

An adhesive, noncracking, nondrying wax with effective anti-mold agent.

Two 1-lb. tubes, **\$1.50** postpaid.

**KALAMAZOO PARAFFINE CO.**  
KALAMAZOO, MICH.

# BURLAP

WRITE  
FOR OUR  
LOW  
PRICES ON  
ANY OF YOUR  
REQUIREMENTS

**NEW YORKER BAG & BURLAP CO.**  
1219 PROSPECT AVE. • NEW YORK 99, N.Y.

for the schedule I held in the 30's to return. My regular daily stint in those days was from 8 a. m. to 9 p. m., when I closed the doors to check invoices, price merchandise and write stock orders for the following day. My work was generally finished sometime between 10 and 11:30. These hours held Monday through Saturday, with Sunday an easy day—from 10 a. m. to 6 p. m. If nurserymen are to hold young people in the business, they must not repeat such programs.

Without overloading any single employee, however, it should be possible and profitable to join the general trend and be open two or three evenings a week. If nurserymen seek information from the public and then operate on the basis of this information, sales should rise and it will seem as though there are suddenly more than 31 days in May!

## CONTROL OF INSECTS

[Continued from page 16]

table, two pounds; Ferbam, one and one half pounds; 15 per cent Aramite, two pounds, and 25 per cent Lindane wettable, one pound, in 100 gallons.

## Suggested Applications

About May 15 the all-purpose spray should be applied to birches, elms, boxwoods and hollies to control leaf miners; to junipers to control juniper webworm; to pines to control sawflies, weevils and bark aphids; to rhododendrons and azaleas to control lace bugs; to ashes, lilacs and dogwoods to control borers, and to most deciduous trees and shrubs to control leaf-eating caterpillars, aphids, mites, mealybugs and some scales.

About June 15 the spray should be applied to fruit and flowering fruit trees and shrubs to control sucking bugs and scale crawlers; to arborvitae to control leaf miners; to pines to control root collar weevils; to apple trees, mountain ashes and birches to control borers; to elms to control leaf beetle, and to taxus to control black vine weevils.

About July 15 the spray should be used again on most deciduous trees and shrubs to control Japanese beetles. At this time it should be applied to pines to control European pine-shoot moths, to locusts to control leaf miners and to peach trees to control borers.

This schedule should prevent any pests from becoming seriously destructive, but will not insure complete pest control. Several pests may require applications of special materials or dosages at other times.

# prepare your compost



## THE LOW COST ROYER WAY

... low cost because you will save up to 89% of the labor you formerly used for manual preparation. With a Royer you can prepare from 1 to 30 cubic yards of compost per hour, depending upon the model selected. The scarce and high priced man hours saved with the Royer are more profitably used for other essential work. Write for bulletin giving further information, including a list of some of the many satisfied Royer users.

Material fed into the low hopper of the Royer is completely blended, shredded and aerated, with all trash removed. A finely textured, ready to use compost is discharged to pile or truck. Compost made with a Royer absorbs moisture quickly and retains it longer, ferments better in the pile, spreads smoothly without damage to the tenderest shoots. Hundreds of Royer Compost Mixers are preparing compost for florists, parks, cemeteries, golf courses. Made in electric motor, gasoline engine or belt-to-tractor drives ... there is a type to fit your needs.



**ROYER FOUNDRY & MACHINE CO.**  
182 PRINGLE ST., KINGSTON, PA.

### TO THE CHARITABLE

[Continued from page 6]

baked, unnecessary and sometimes chiseling projects that will bring little, if any, satisfactory result.

Probably every nurseryman, large or small, receives one or more requests each season for donations of stock. He is the best judge as to whether he wishes or not to contribute in each instance, for he should be the most familiar with the undertakings in his locality. But, while he may generously donate a tree to a church or plant the school grounds gratis if he wishes, he should think twice if the stock he is asked to donate will be used for propagation by a school class, at a camp or elsewhere. Otherwise he unthinkingly may be starting something which he will wish later to stop and find it hard to do so.

GLEN OAK GARDENS was opened at Glendora, Calif., by Arthur G. Brown, of Glendora, and Warren Harrell, Monrovia, Calif.

## HAND TRUCKS

Especially built for handling  
B&B nursery material. Are  
built in three sizes, with  
capacity up to 1500 lbs.

Illustrated is our small  
model truck. One man  
can easily handle 600-lb.  
ball.



Write for folder giving details and prices.

**THE GARDEN SHOP, Inc.**

6315 West 75th St.

Overland Park, Kansas

Phone HEdrick 3288 (Kansas City, Mo., exchange)



## HERE IS WHY NURSERYMEN PREFER MENNEPOTS



### Superior Strength

Sturdily constructed, the MENNEPOT withstands hard handling without fear of breaking apart.

### Stapled Bottom

Comes completely assembled . . . Potting can start immediately upon arrival — regardless of weather.

### Light Weight

The MENNEPOT is easy to handle, economical to use. The extremely light weight makes shipping costs negligible.

### Drainage

The unique side-drainage feature in the MENNEPOT makes waterlogging impossible while standing in the salesyard.

**Size 0** Top . . . 4 ins.  
Bottom . . . 3 1/2 ins.  
High . . . 4 ins.  
Weight per 100  
Regular 10 lbs., Heavy 25  
Regular Weight Price  
100...\$2.75 1000...\$25.00  
Heavy Weight Price  
100...\$3.75 1000...\$35.00

**Size 1** Top . . . 6 ins.  
Bottom . . . 5 ins.  
High . . . 6 ins.  
Weight per 100  
Regular 15 lbs., Heavy 35  
Regular Weight Price  
100...\$4.00 1000...\$37.50  
Heavy Weight Price  
100...\$5.25 1000...\$50.00

**Size 2** Top . . . 7 ins.  
Bottom . . . 5 1/2 ins.  
High . . . 8 ins.  
Weight per 100  
Regular 24 lbs., Heavy 55  
Regular Weight Price  
100...\$4.50 1000...\$42.50  
Heavy Weight Price  
100...\$5.75 1000...\$55.00

**Size 3** Top . . . 8 1/2 ins.  
Bottom . . . 6 1/2 ins.  
High . . . 9 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100...\$5.00 1000...\$47.50  
Heavy Weight Price  
100...\$6.25 1000...\$60.00

**Size 4** Top . . . 8 1/2 ins.  
Bottom . . . 7 1/2 ins.  
High . . . 5 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100...\$5.00 1000...\$47.50  
Heavy Weight Price  
100...\$6.25 1000...\$60.00

**Size 5** Top . . . 12 ins.  
Bottom . . . 10 ins.  
High . . . 12 ins.  
LG. POT  
Weight per 100 250 lbs.  
20...\$30.00 100...\$27.50  
500...\$125. 1000...\$225.  
\*Special for extra-heavy  
trees and large shrubs.

500 or more take 1000 quantity price. Special prices on carload quantities.

All shipments F.O.B. North Tonawanda, N. Y.

Less than 100 lbs. take 100-lb. freight rate.

Packed 100 and 200 per carton.

Terms: 2% cash with order; net 30 days.

Send 50c for set of samples. Send another 50c for No. 5 pot.

**MENNO S. MENNES NURSERIES**

Phone Ludlow 4444

**NORTH TONAWANDA, N. Y.**

### NURSERY TRADE ANALYSIS [Continued from page 10]

and as a percentage of all retail trade for ornamental horticulture in that part of the United States which is not included in the standard metropolitan areas are significantly lower than those of the United States average. In these nonmetropolitan areas, the production value exceeds the retail requirements of ornamental horticulture by nearly 10 per cent.

Retail growers of ornamental horticultural crops in the 128 standard metropolitan areas handled nearly 54 per cent of the retail sales of their own products, an amount comparable to the population and dwelling unit percentages represented by these areas. Sales of ornamental horticulture as a percentage of all retail trade were greater in the 128 standard metropolitan areas than in the rest of the country.

#### Nonmetropolitan Areas

In the nonmetropolitan areas sales of ornamental horticulture per capita or per dwelling unit were 22 per cent less than the United States average. There is the likelihood of increasing sales of ornamental horticultural crops to the population (nearly 50 per cent of the national total) located outside of the 128 standard metropolitan areas, irrespective of any increase of sales within the metropolitan market areas.

It is worthy of note that, unlike most other kinds of agriculture, high percentages of the crop production of the horticultural specialties took place within the standard metropolitan economic areas where high percentages of the retail distribution also occurred.

### RECOMMENDED

### KAPCO NUTRITIVE PROTECTIVE AGRICULTURAL CHEMICALS

### BY AUTHORITIES

#### NOW 99 1/2% SOLUBLE 15-30-15

25 lbs. .... 22c per lb.  
80 lbs. .... 30c per lb.  
800 lbs. .... 18c per lb.  
2000 lbs. .... 17c per lb.

#### NOW 99 1/2% SOLUBLE 20-20-20

25 lbs. .... 22c per lb.  
80 lbs. .... 30c per lb.  
800 lbs. .... 18c per lb.  
2000 lbs. .... 17c per lb.

#### CONTAINS CHELATED IRON 21-7-7 plus Iron Sulphate

Azalea Acid Liquid Fertilizer  
25 lbs. .... 26c per lb.  
80 lbs. .... 25c per lb.  
800 lbs. .... 24c per lb.  
2000 lbs. .... 23c per lb.

The above prices save time and money. Ask for price list.

F. O. B. McKeesport, Chicago, Cleveland and Florida.

**KELLY AGRICULTURAL PRODUCTS CO., McKeesport, Pa.**

### PROPAGATION OF PLANTS, by Kains and McQuesten.

Nursery and greenhouse reference. 637 pages, \$4.50.  
American Nurseryman Chicago 4, Ill.



**FINEST QUALITY — PROMPT SERVICE  
LABELS PRINTED TO ORDER**

Write for samples, prices and discounts.

**THE BENJAMIN CHASE CO.  
DERRY VILLAGE, N. H.**

### CHARLES SZEMORE

319 1/2 Georgia St. Louisiana, Mo.

Collector of past-due notes and accounts any place in the United States and foreign countries—Rates as below:

18% on the first \$500.00.

15% on the next \$500.00.

10% in the excess of \$1,000.00.

On claims of \$30.00 or less, 50%.

Minimum commissions \$15.00.

Suit Fees:

On claims of \$45.00 or more, a suit fee of not less than \$7.50.

**NO COLLECTION—NO CHARGE**

Freight bills not over two years old checked for 35 per cent of any amount found. Nothing found, no charge.

### HALPERN BROS.

### NURSERY BURLAP

### Squares and Rolls

and

### MESH COTTON NET SQUARES

272 S. 2nd St. Market 7-3346  
PHILADELPHIA 6, PA.

### GOODRICH BUDDING STRIPS

Do not get "caught short" when budding time is here next summer.

Order now and give us a shipping date to be sure your Budding Strips will be on hand when needed.

**THOMAS B. MEEHAN CO., Inc.  
DRESHER, PA.**

## FLOWER SHOWS

(Continued from page 9)

ing grass paths and were planted with low azaleas highlighted by the judicious use of yellow lantanas and yellow and bronze marigolds.

## June Garden a Winner

A June garden, covering approximately 1,000 square feet, was the gold medal-winning entry of Matinecock Greenhouses, Oyster Bay, L. I. This garden, designed and executed under the direction of Alfred Roach, was also the recipient of the coveted Bulkley medal of the Garden Club of America, of a special trophy awarded by the New York Florists' Club and of the Massachusetts Horticultural Society's gold medal.

The design adhered to traditional formal lines. A central grass panel, surrounded by formal beds of peonies, in light tones of pink, white and red, led up to a brick terrace which supported a wistaria-covered pergola. Pacific giant delphinium, in multicolored tones of blue, was combined with Lilium candidum as plantings in the four corners and was also massed facing the side entrance. An armillary sphere provided a focal point in the center of the grass panel. Peonies provided the major accent of color in the beds.

## Smaller Garden Class

The special trophy of the International flower show and a gold medal certificate were awarded to W. Atlee Burpee Co., Doylestown, Pa., for a garden of annuals in the 500 square foot class. Miss E. Helaine Lintelman, the designer, used an informal semicircular garden terrace, accented by a huge white pine, as the setting for the company's latest annual flower introductions. A semicircular flagstone retaining wall faced a graveled area, which held a set of wrought-iron garden furniture.

The upper level of the design formed by the wall of this exhibit was planted in blue and white petunias. White and purple alyssums were kept low in the foreground, and tall Glitter marigolds provided a colorful and contrasting background. Deep pink, multitoned lavender and white asters were intermingled with blush-pink petunias at the far left of a narrow gravel path which led to the open area. This massed planting was edged with tiny Blue Perfection ageratum. White petunias were placed along the retaining wall. Pink and white fibrous begonias edged the base of the pine tree, which, in addition to providing an

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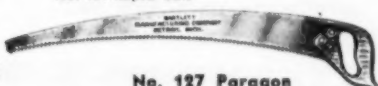
No. 114B Special Utility

No. 114B is 26 inches long and offers same exclusive design as No. 124B except for handle. Fast cutting, easily sharpened.



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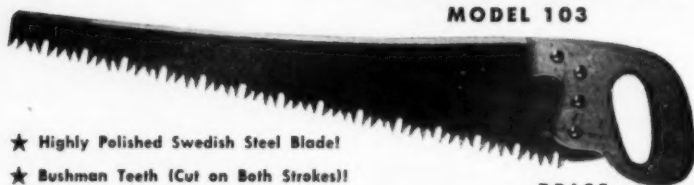
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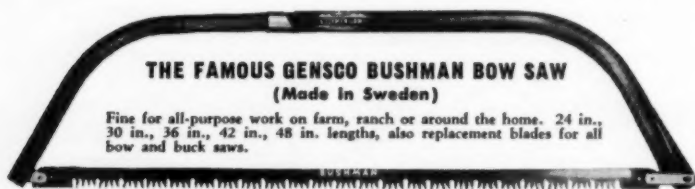
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interesting focal point, offered shade as well.

Bobbink & Atkins, East Rutherford, N. J., were represented in the smaller class with a formal garden designed around a circular grass mall, centered by a fish pond. Rhododendrons, flowering azaleas and mountain laurel were mingled with a variety of spring flowers along both sides of the entrance leading to the pond. The plantings behind the pool were semicircular in design and composed of the same materials. Background plantings were kept low.

### Garden for Outdoor Living

Dalsimer, Inc., Cedarhurst, L. I., presented a garden planned for outdoor living that reflected the modern trend for informal design lines. A redwood-framed garden shelter, with a green plastic roof over which a constant stream of water flowed, centered the design. The water from the roof, which was used to shelter an outdoor living room, was funneled into a small pool adjoining a raised brick planting. The living area led out to a heavy stone terrace, banked on the left by large masses of pink azaleas. White birch, flowering dogwood and evergreens were used as accent points on each side of two entrances leading into the shelter.

"Spring Cottage Garden," which featured five varieties of tulips—Scotch Lassie, Glacier, Pride of Zwanenburg, Golden Harvest and Scarlet Beauty—was the entry of Vaughan's Seed Co., New York. The informal lines of the display led from a patio facing an irregular grass mall. The tulip beds were backed by flowering azaleas and edged with white alyssums. A flowering dogwood was planted in a raised bed in the far left corner of the garden, and white birch and evergreens were planted in a similar bed adjoining the patio. The right side of the garden was backed by a planting of tall arborvitae used as a hedge.

A special trophy of the Horticultural Society of New York was awarded the estate of H. McK. Twombly, Convent Station, N. J. for a "June Garden" designed around a summerhouse placed on a slightly raised terrace.

The New York Botanical Garden was awarded the Lambertus C. Bobbink memorial trophy for a California begonia garden completely contained in a large modernistic lath house. The plants were arranged in border beds separated by paths.

In the noncompetitive class, the New York State Nurserymen's Association presented a "Picture Window



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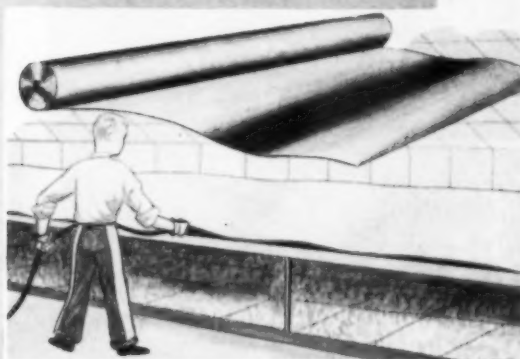
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Garden," designed by Clifton Sammis, of West Huntington, N. Y. The over-all plan of this design was one that could be utilized for either a front or back yard of a small suburban home. Two flat, long steps led onto a brick terrace of informal design. Pansies, with yellow and white predominating, were planted in the righthand foreground and backed by broad and narrow-leaved evergreens. On the left, coming down the steps, three huge pink azaleas were placed against a backing of hemlock with the planting centered by a single European birch. Myrtle was used as a ground cover. An iron bench anchored the right hand side of the garden and was backed by a planting of three flowering dogwoods and one large white azalea. Ivy was used as a ground cover on the right-hand side of the garden. A view of this display may be seen on page 7.

The educational exhibit of the Brooklyn Botanic Garden dealt with proper pruning methods for dormant plants. Plant materials used included holly, taxus, privet and an assortment of flowering shrubs.

Another attractive entry in the smaller garden class was the "Modernistic Figure Eight Garden" of Daybreak Nurseries, which featured

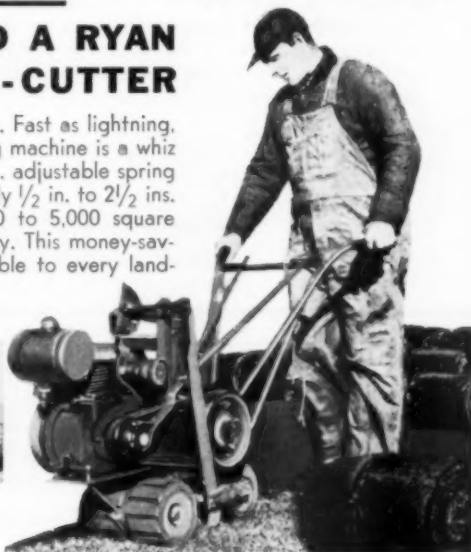
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a formal planting of tulips, made up of five new varieties, facing a wrought-iron shelter. Circular plantings of white tulips, which formed a part of two entrances, were straddled on each side by rows of small boxwood. A planting of white and lavender blooms, with the latter placed in the background, adorned one side of the entrance and was heightened by a semicircular mass of pink azaleas. The other entrance planting had a large boxwood shrub as a focal point and a formal bed of lavender and red blooms. A large flowering dogwood tree was used as an accent on the right-hand side of the shelter.

### More Winners

Bobbink & Atkins were awarded a first place for a group of azalea plants, three plants in variety and not less than three feet in diameter. This firm also was given a first prize for an azalea specimen plant, not less than four feet in diameter, with Madsen & Christensen placing second and the firms sharing the same awards for a specimen azalea plant not less than four feet in height.

Bobbink & Atkins also won a first prize for a grouping of large-flowered, tender evergreen azaleas covering 200 square feet.

Julius Roehrs Co. was awarded a first prize in the fancy-leaved caladium class for an exhibit covering 100 square feet; Louis Dupuy Greenhouses, Inc., placed second.

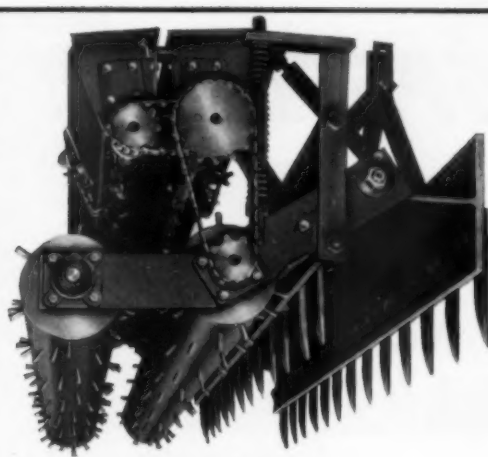
For exhibits of sweet peas, contained within 50 square feet, W. Atlee Burpee Co. was awarded two first prizes and Vaughan's Seed Co. was awarded two second-place prizes.

Patients at the Northport Veterans' hospital, Northport, L. I., were once again awarded a special trophy for a small planting of seasonal material designed to enhance a garden tool shed. Flowers featured were borders of red tulips and small plantings of white and pink azaleas.

### Table Displays

The firm of Lager & Hurrell, Summit, N. J., won the Charles H. Totty memorial medal and the American Orchid Society trophy for a display of flowering orchid plants arranged on a large table. The varieties used provided such a spectacular mosaic of color combinations and texture contrasts that the exhibit received almost as much attention as the garden displays on the main floor of the huge exhibition hall.

Julius Roehrs Co., East Rutherford, N. J., was awarded two gold medal certificates for table displays, one of which featured succulent



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plants arranged in a tableau depicting the southwest desert region, and another, 81 exotic plants in a small tropical setting.

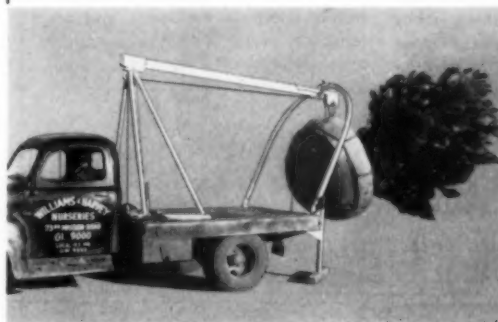
### New England Spring Show

Despite dismal, rainy weather, about 30,000 enthusiastic persons welcomed spring a week ahead of its scheduled formal appearance on the calendar by crowding the Mechanics building, Boston, Mass., March 15, on the opening day of the New England spring flower show. Running until March 21, the show was the 82nd such annual event sponsored by the Massachusetts Horticultural Society for the pleasure of New England flower lovers.

Mrs. Christian E. Herter, wife of the governor of Massachusetts, opened the show, which had as its theme "Golden Gardens," with yellow predominating in many of the exhibits.

Eight prize-winning gardens were laid out in the Grand hall of the exhibition building. First to catch the eye was an exhibit arranged on the stage by Woodbury Bartlett, Hamilton, Mass. Awarded first prize and a gold medal, this exhibit consisted of a formal estate entrance, with massive stonework. Dogwood, large pines and cedars formed the

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background; the focal point was a 10-foot fountain pool, which gave a majestic air to the stage. Surrounding the pool were gravel paths bordered with clipped cedar hedges and famed John Ames azaleas.

Directly in front of the stage was a 10-foot-long running bed of *Primula polyantha* in a galaxy of colors. Flanked by dogwood, this exhibit of the National Association of Gardeners, Cape Cod, received a special prize.

Awarded the gold medal of the Horticultural Society of New York for the most beautiful exhibit of the show, a special prize and a gold medal was the acacia exhibit of Mr. and Mrs. Robert G. Stone, Marion, Mass. Stewart Johnson, the Stones' superintendent, arranged the acacias, heavily banked with ferns, on two sides of a large center aisle that commanded a view of the stage.

### Arbor Entrance

At the rear of the hall were two gardens arranged by Bay State Nurseries, Inc., North Abington, Mass. A large arbor of this exhibit was placed so as to constitute the entrance to the hall. At the right, the garden began with a summerhouse featuring roses of the new variety President Eisenhower. More roses flanked a path leading from the summerhouse, and, at the left, the rose-bordered path continued to an urn in muted tones blending with the green. This exhibit received a special prize.

Two large, colorful borders, heavily planted in white dogwood and yellow and orange azaleas to carry out the "Golden Gardens" theme, filled both sides of the hall. *Doronicum caucasicum* accented the plantings, which were similar on both sides, creating a pleasingly uniform appearance, with a flagged terrace and bench featured on one side and a statue of Bacchus on the other. Exhibited by Weston Nurseries, Hopkinton, these border gardens took the president's cup, awarded for the most meritorious exhibit in the show, as well as a gold medal and a special prize.

Three more gardens greeted the viewer at the entrance of a second exhibition hall. The first was a rhododendron garden shown by Cherry Hill Nurseries, Newbury, Mass. In the background of this exhibit was a colonial facade of a small house with a terrace, from which led a grass path to plantings of mountain laurel and rhododendron. A first prize and gold medal were awarded to this exhibit.

At the left of this exhibit, along grassy paths, were numerous species of miniature bulbs, including botan-

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ical tulips and dwarf narcissi, executed by Jean Thibodeau, Woburn, Mass. This planting also took a first prize and gold medal.

Another first prize and gold medal winner was a ledge garden, replete with colorful alpine, miniature bulbs and dwarf trees. A towering pine tree rose above an artistic natural pool with a waterfall. This garden was the work of Alexander Heimlich, Woburn.

#### Herb Garden

An herb garden designed by the Herb Society of America received much favorable comment. It featured a natural pool with a small shrine and was flanked by borders of lilies of the valley, rosemary, hyssop, sage and scented geraniums. A thatched roofed summer house complemented this old-fashioned garden, which was also a first prize winner.

Egbert Hans staged a naturalistic scene that won a gold medal and first prize for the Massachusetts state department of conservation. Against a background of hills, a waterfall streamed through a gorge, whose mossy rocks were banked with plants indigenous to the state, including mountain laurel and pitcher plants.

Still another type of garden was designed by Arthur Leiby for Norumbega Nurseries, Weston. With a

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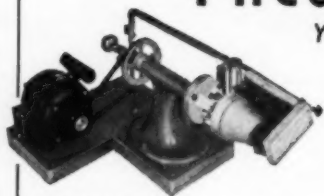
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terrace dominated by a majestic pine tree against a background of dogwood and azaleas, this garden also received a gold medal and first prize.

L. E. Pearson, Manchester, N. H., received a first prize for his landscaping and terrace around a modern house. Azaleas and pines, together with rhododendrons, were the main features of this exhibit. In among some of the trade booths was a beautiful exhibit of subzero roses by W. Dexter Brownell, Jr., who won a first prize.

### Arnold Arboretum Exhibits

To handle the overflow of exhibits, the basement of the building was opened. An effective and educational display, shown by Arnold Arboretum and executed by Dr. Donald Wyman, which took a first prize, demonstrated pruning methods, showing how trees should be pruned in successive years.

Near this exhibit was another first prize winner, a desert garden featuring cacti and arranged by F. I. Carter, Tewksbury.

Wellesley College, Wellesley, Mass., brought a suggestion of Old Mexico to the show with its exhibit, which showed a tile-roofed Mexican cottage and a terrace of Mexican subtropical plants, including begonias, coleuses and lantanas. Particularly striking in this garden, which won a first prize, was *Isoloma hirsutum* and *arundinarias*.

Breck's exhibit, planned by John Russell, was another garden that carried out the theme. Situated in the center of the hall, this first prize and gold medal winner was done in two levels. A sundial, statue and iron bench adorned the center of a circular terrace on the higher level, with flowering crab and dogwood forming the background. A grilled gate and taxus hedge permitted a view of the garden, with its masses of Golden Age tulips. Before the gate were masses of yellow alyssums and prim-

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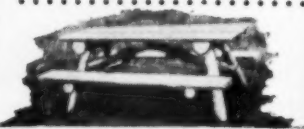
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roses. On two sides at lower levels were borders of pink, blue and white hyacinths.

After an absence of several years, Albert Hulley, Middleboro, entered an exhibit this year that took a special prize, a gold medal, and the third highest award of the show, the gold medal of the Pennsylvania Horticultural Society. Mr. Hulley's exhibit used a latticed fence gracefully covered with pink, purple and white clematis and tree roses, some of which were eight feet high.

A southern garden of camellias and azaleas, with a pool that caught the reflection of the azaleas, won a first prize for the Gardeners' and Florists' Club of Boston. Taking another first prize was a garden featuring a winding tulip-bordered path leading to a summerhouse and placed against a background of pine trees, dogwood and forsythias, the exhibit of the National Association of Gardeners, Newport.

Among the special awards offered, the George Holiday memorial prize for the exhibit of potted plants showing the highest standard of culture was won by Thomas Allen, Brookline, for his group of cinerarias and schizanthuses. The Antoine Leuthy gold medal for the best display of flowering or foliage plants went to Mr. and Mrs. Robert G. Stone, and the Massachusetts department of agriculture trophy for the best commercial exhibit was won by Johnson Bros., Inc., Woburn, for a rose display.

### Connecticut Show

Colorful spring gardens stressing the pleasant informality of suburban living attracted more than 30,000 visitors to the seventh annual Connecticut spring flower show, staged March 15 to 21 at West Hartford state armory, Hartford, Conn. Despite rainy weather during most of the period and the competition of the New England show running concurrently at Boston, Mass., the official attendance tabulation was expected to reach record proportions for the state.

Additional publicity and admissions were garnered on opening day, when Gov. John Lodge and Mrs. Lodge officially opened the show, sponsored jointly by the Hartford Times, the Connecticut Nurserymen's Association, the Allied Florists' Association of Greater Hartford, the Federated Garden Clubs of Connecticut, the Hartford branch of the National Association of Gardeners and the Connecticut Horticultural Society.

Spring gardens lined both sides of the show building, which featured a



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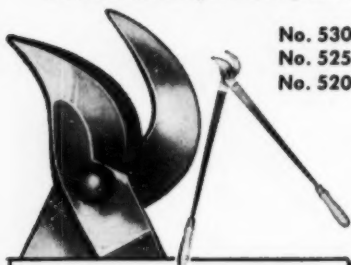
	Per 1000
3½-in. Tree Labels, copper-wired, painted	\$ 3.70
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Prices for No. 12 Head (for 1 1/2" cutting) and extensions on request.



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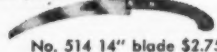
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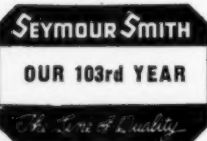


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huge display by the Allied Florists' Association of Greater Hartford at the far end.

### Orchid Display

A raised platform, with a walk for visitors, formed a well which held a tropical orchid planting from A. N. Pierson, Inc., Cromwell. Colorful hybrid orchids adorned the firm's orchid tree, which was situated at the center of the display, and a natural waterfall in the background fell gracefully into a small pool, surrounded with flowering varieties of small orchid plants. Spanish moss was draped on the limbs of the tree to complete the tropical illusion. The 3-sided platform held floral displays from retailers in the Hartford area and featured most varieties of cut flowers in various arrangements for specific occasions. The over-all exhibit won a special trophy in addition to an exhibition gold medal.

Ludwig Hoffman Nursery, Bloomfield, was awarded a trophy and gold medal for a garden depicting a sunken living area backed by a terrace planting of flowering dogwood and azaleas. White birch was used in the background on the left, with hemlock on the right. The foreground was planted with narcissi, white hyacinths and red and white tulips, and the enclosed side of the graveled area was adorned with a heavy planting of blush-pink azaleas and a small clump planting of grape hyacinths.

Mount Phillip Nursery, Weatogue, won a trophy and gold medal certificate for a planting centered around a rustic, weather-beaten tool shed. A gravel drive led to the shed, situated on a red brick terrace; a wellhead and pool were on the left of the terrace facing the shed. Hemlock, forsythias and flowering crab apples were planted on the far right, with plantings of vegetables, bulbs and azaleas arranged toward the entrance. Azaleas and laurel were used to face a stockade fence on the left and were bordered with beds of flowering bulbous items and annuals.

A rustic shelter was used to anchor an informal exhibit, set up by Blue Hills Nursery, Avon, which was awarded a trophy and a gold medal. A small path, planted on the right with dogwood and lavender azaleas with a huge forsythia shrub used as an accent point at the entrance, led up to the shelter. A large flowering border, consisting of spring bulbous blooms in a variety of colors, daphne and small rhododendrons, was arranged in natural design lines on the left.

An herb garden of radial design was a trophy and gold medal-winning

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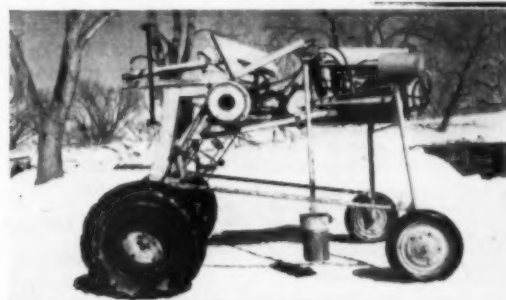
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entry of Tow Path Gardens, Hartford. The formal beds were planted with a wide variety of herbs, all contained within natural stone borders. A sundial in the center faced a heavy stone wall, which had a small wall fountain spilling into a heavy stone jar. Huge taxus shrubs were used at each end of the wall.

Norman P. Gillette, West Simsbury, won a gold medal for a garden designed around an outdoor barbecue area. The back of the graveled area was terraced by red brick and planted in spring-flowering shrubs. A small brick semicircle, separating the lawn area from the graveled area, was planted in multicolor pansies, and a pansy bed was also used on the right side of the entrance. A group of white pines supplied a windbreak on the left side of the brick fireplace.

A small urban garden, built on unusual brick and flagstone levels, was designed by Peter Cascio Nursery, West Hartford, and awarded a gold medal. The garden was enclosed with a basket weave fence for additional privacy and featured a boxwood hedge, a bed of roses and a raised brick terrace containing colorful house plants. A photograph of this display may be seen on page 9.

Spaulding Nurseries, Suffield, exhibited a formal tulip garden set on

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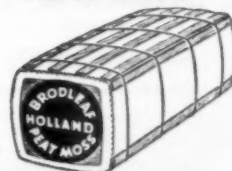
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a flagstone terrace. Four entrances leading up to a small rectangular pool in the center of the design were bordered by tulip beds featuring white, red and variegated varieties. Edging in the foreground was provided by low beds of grape hyacinths. The completed outer rim of the garden was planted in blue and white hyacinths.

### Landscaped Hillside

A landscaped hillside and pool, designed by Scott's Nurseries & Greenhouses, Bloomfield, were awarded a gold medal. A grass mall on the left of the entrance followed the contour of a natural pool nestled at the base of the hill. The slope of the hill was planted in dogwood, white pine, forsythias and azaleas, with a foreground planting of crocuses and daffodils. A clump of white birch was on the right of the entrance amidst a planting of single and double tulips, daffodils, narcissi and crocuses.

Farmington Nursery, Farmington, used a small rustic bridge at the base of a hillside planting to supply the focal point for a gold medal-winning design. A small stream meandered through the center of the natural planting and emptied into a pond. Color in the predominately green background was supplied by dogwood, azaleas and flowering laurel; a natural planting of spring flowers surrounded the pool.

A suburban yard, with a work area, designed by Brouwer-Hutt Nurseries, New London, also won a gold medal. A flagstone path led through the center up to the work area, with forsythias and rhododendrons banked on the left and laurel and forsythias on the right. Daffodils and red, yellow and white tulips were used in the flower beds surrounding the open areas.

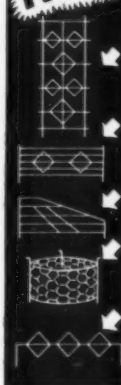
Exhibits awarded special commendation included a display set up by the Hartford department of parks, which used materials that adhere to design lines and shape in landscaping public areas.

The sale of cut flowers and pot plants was carried on at a small booth at the front of the auditorium. Proceeds from these sales were to be used to provide summer vacations for needy children in the Hartford area.

### Philadelphia Flower Show

The 26th annual Philadelphia flower show was opened March 16 by Attorney General Robert E. Wooside, representing Gov. John S. Fine, who cut the ribbon at the entrance to the display of spring and summer flowers in full bloom which

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and garden plants and shrubbery, including roses, chrysanthemums, asters, gladioli, geraniums, coleuses, ivy and azaleas.

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covered four acres of the Commercial museum.

An exhibit in the center bay which depicted "The Philadelphia Scene of 1827," planned by Frederick W. G. Peck in cooperation with the Pennsylvania Horticultural Society, was intended to commemorate the 125th anniversary of the horticultural society. The display was designed for the society by Charles Evans. An old Philadelphia street in the rear of the bay afforded an interesting background with its colonial homes and an apothecary shop and led to the bank of the Delaware river, where the masts of a ship could be seen.

On both sides of the hall was a large group of ranunculus; and azaleas grown by Bobbink & Atkins, East Rutherford, N. J., were planted in large terrace arrangements on either side of the main bay. These azaleas were awarded a first prize.

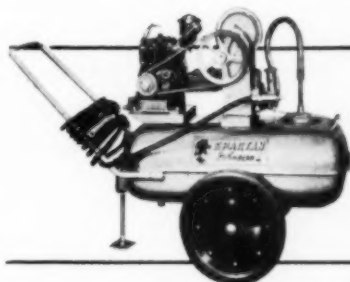
The summer house and garden by W. Atlee Burpee Co. used a garden wall and terrace with planting on the upper level, while the lower garden was planted with border groupings of petunias, asters, ageratum, zinnias, etc.

Styer's Nursery, Concordville, Pa., took a first award for its exhibit of an outdoor living room. The exhibit covered 1,600 square feet and used

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## AMERICAN NURSERYMAN

evergreens and flowering trees and shrubs arranged around a flagstone patio, on which stood lawn chairs. There was a lawn next to the patio and a small hut made of stone blocks and covered by wood slats standing at the rear of the display. A photograph of this exhibit may be seen on page 8.

**Rose Garden Receives Award**

A first prize was awarded the Conard-Pyle Co., West Grove, Pa., for its rose garden, which covered 1,000 square feet. The garden was designed by Donald Rochrs, landscape architect of Franklin Lakes, N. J.; there is a picture of it on page 8.

The Henry F. Michell Co.'s garden was of the neat and orderly type featured for many years past—every plant a perfect specimen. The large open lawn surrounded by an irregular border with tulips predominating and a well-planned background of flowering shrubs and rhododendrons made an interesting contrast with a neat edging of boxwood.

A. M. Campbell & Son, as usual, offered exhibits of gardenias and hydrangeas. A group of white, pink and blue hydrangeas surrounding a quiet pond was impressive with its background of rhododendron, hemlock and dogwood. A display of gardenias in a garden group with tree heliotrope, flowering apple trees and dogwood, was most effective.

The Gallery of Roses, staged by Roses, Inc., was unusual for its large panel of picture windows, each with roses in unusual arrangement, and large garden urns in the grass plot in front of the white metal lattice roof.

**Orchids Displayed Prominently**

Orchids were again a highlight of the show. Private estate exhibits featured large displays of miscellaneous orchids. Outstanding was the exhibit of George Off & Sons, Linwood, N. J., which took the highly coveted T. A. Weston memorial trophy. Their exhibit was of a tropical jungle garden which was strikingly naturalistic in every detail. In it were gnarled trees, tropical birds, trees growing 15 to 20 feet tall, vines and vegetation growing along winding streams emanating from a giant waterfall far back in the jungle. The display, which covered 1,000 square feet, showed orchids in many varieties and anthuriums growing in their natural habitat.

The Middle Atlantic Carnation Growers Association had an exhibit of carnations arranged in ornamental containers for home decoration. An



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outdoor lounge with flagstone and pebble floor and white metal furniture was effective in displaying the new Mamie Eisenhower carnation, arranged in an open window effect.

J. J. Habermehl's Sons staged an elaborate display with an electric fountain in front of a giant seashell, against a background of cibotiums and forsythias.

#### **California Flower Show**

Exceeding last year's attendance figures by more than 1,000, 193,502 persons flocked to Hollywood Park's beautiful clubhouse, overlooking the race track, March 14 to 22, for the fourth annual California international flower show, at Inglewood, Calif.

This year, the clubhouse and pavilion of Hollywood Park were taken over in their entirety for the show to give extra room for exhibits and provide seven acres of display space on two floors. An interesting new floor plan provided winding serpentine vistas of the displays, which included 23 large first floor garden exhibits by nurserymen, landscape architects and private estate growers.

The large nurseries exhibiting outdid themselves this year from the point of beauty of design and execu-

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tion, and the cut flower growers' dis-  
plays surpassed previous shows both  
in size and in arranging skill.

### Nursery Exhibits

Largest and most dramatic of the  
many nursery exhibits was the gold  
medal award-winning New England  
village of Germain's, Inc., Los An-  
geles and Van Nuys. Occupying  
10,000 square feet of floor space and  
costing at least \$25,000 to erect, the  
little village, with buildings con-  
structed to two-thirds actual scale,  
included a church, an antique shop,  
a country store and four homes, each  
placed within a garden setting.

A bell ringing in the church tower  
seemed to be calling the crowds to  
Sunday services, and from within  
was heard appropriate church music.  
Scores of white flowers, including  
Easter lilies, tulips and 5,000 lilies  
of the valley were planted around  
the church.

The church, shops and homes were  
placed on both sides of a wide aisle,  
overshadowed by elm branches and  
simulated tree trunks. Backdrop  
scenes behind the buildings created  
the illusion of the village's continu-  
ing into the distance. Manfred Mey-  
berg, the show's executive chairman  
and president of Germain's, Inc.,  
planned the village, and it was  
worked out by the various nursery  
staffs.

The only other gold medal pre-  
sented for an outstanding display  
went to Cedric's Flowers for a Mardi  
Gras exhibit. In addition, more than  
50 gold trophies and \$45,000 in cash  
prizes were awarded in various com-  
petitive classifications.

### Wilcox Azalea Garden

Once again the large azalea gar-  
den display of Roy F. Wilcox &  
Co., Montebello and Santa Barbara,  
was a feature of the show. This year  
a tremendous waterfall poured 800  
gallons of water per minute into  
pools below as the spectacular cen-  
tral point in a hillside garden dis-  
play of 3,000 flowering azalea plants.  
The azaleas were planted among  
rocks and grassy slopes around the  
pools and over a tree-shaded hill-  
side.

Warm, brilliant-toned plants were  
in the foreground, with the colors  
graduating to cool, rose tints and  
white in the background. Roy F.  
Wilcox, president of the concern and  
general chairman of the show,  
planned this exhibit.

### Outdoor Living

Outdoor living in California was  
the theme of a number of well-land-  
scaped exhibits showing flowering  
plants, decorative foliages, shrubs

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and trees as ideal complements for modern homes.

How flowers and foliage can enhance the beauty of a beach house was successfully shown by Armstrong Nurseries, Ontario. A photograph of this entry is on page 9. Facing the crowds as they first entered the main entrance, this exhibit used beach furniture and accessories, a sand pile and bright-hued awnings set against a painted backdrop of rocky cliffs and the ocean. In the foreground was a lawn of hardy ivy, while surrounding gardens featured blooming tulips, azaleas, cinerarias and hyacinths each in a separate color patch. Pine trees were in the background.

Nearby was the beautiful "Coraline" garden display of Rosedale Nurseries, Monrovia, a picture of which may be seen on page 9. Gardens in the foreground, with walks and unpainted wood walls of irregular heights, set off a picture window through which could be seen a waterfall and colorful blooming plants growing among rocks and in the water. Plants typical of a coral island were shown in the interior exhibit, while, in the foreground, in the exterior garden, 1,000 blooming azalea plants, decorative foliage and lawns were seen. Blooming fruit

trees, pyracanthas and camellias overshadowed the fences in the background.

Evans & Reeves Nurseries, Los Angeles, had a 2-part garden display featuring a children's patio against a peeled stripping fence in one section with a modern lanai, rare foliage and tropical plants in the other section. A brilliant patch of clivia under tree ferns was another interesting feature of this exhibit.

### Desert Depicted

A striking contrast to other garden displays was a "Painted Desert" exhibit by Paul J. Howard's California Flowerland, Los Angeles, which was over 100 feet wide. Artificial lighting created the illusion of the desert at night, and large desert night moths and stuffed quail were glimpsed among interesting desert plants and shrubs.

R. W. Smith Co., Pasadena, had two garden displays, the larger featuring a modern lanai with a wood garden platform. Grotesquely twisted pine trees were in the background, and giant circular stone blocks served as steppingstones through a garden to the platform. Succulents and decorative foliage were used.

Fred A. Stewart, San Gabriel, had a trophy-winning orchid exhibit, in



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**WEED CONTROL.**  
by Robbins, Crafts and Raynor (1952), \$8.00.

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by Gardner, Bradford and Hooker (1952), \$9.00.

**WILD FLOWERS FOR YOUR GARDEN.**  
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by Amelia L. Hill (1952), \$3.85.

**INTRODUCTORY SOIL MECHANICS AND FOUNDATIONS.**  
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**DDT AND NEWER PERSISTENT INSECTICIDES.**  
by T. F. West and G. A. Campbell (1952), \$8.50.

**A HISTORY OF HORTICULTURE IN AMERICA TO 1860.**  
by U. P. Hedrick (1950), \$7.50.

**AMERICAN HONEY PLANTS.**  
by Frank C. Pellett (1947), \$6.00.

**THE GARDENER'S TROUBLE SHOOTER.**  
by Victor H. Ries (1952), \$3.50.

**THE EARTH'S FACE AND HUMAN DESTINY.**  
by Ehrenfried Pfeiffer (1947), \$2.75.

**INSECT CONTROL BY CHEMICALS.**  
by A. W. A. Brown (1951), \$12.50.

**THE HYDRANGEAS.**  
by Michael Haworth-Booth (1950), \$3.50.

**HUMUS AND THE FARMER.**  
by Friend Sykes (1949), \$4.50.

**IRRIGATED SOILS.**  
by Thorne and Peterson (1949), \$5.00.

**ROSES FOR SOUTHERN GARDENS.**  
by Bessie M. Baird (1948), \$5.00.

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the background of which a painted backdrop showed the hills and fields of San Gabriel. On the grassy slopes of the exhibit a tremendous dead tree trunk was covered with orchids, arranged as though they were growing wild.

Green plants suitable for modern office use were featured in an exhibit by the Superior Nursery Co.'s plant rental division, Los Angeles, against a background of an office building. At one side were 30-foot-long shadow boxes planted with decorative foliage.

Keeline-Wilcox Nurseries, Montebello, created a high hillside garden beside a cottage, so designed to give viewers the illusion of looking over the hill and far down into a garden of azaleas, rhododendrons and other spring flowers.

### "Before" and "After" Exhibit

"Before" and "After" views of a garden plot formed the interesting display of Henry C. Soto Corp., Los Angeles. One display showed a dilapidated garden and walks, with an ugly incinerator and clothesline. The other showed the same garden space attractively redesigned, with high wood zig-zag pattern screens concealing the incinerator, clothesline and other implements.

Howard & Smith, Montebello, had a garden exhibit showing how home gardeners can achieve much in a small space and at low expense with climate control and color. About 100 hybrid amaryllises, cinerarias and other flowering plants were in the garden background, showing the corner of a house and a barbecue pit against a redwood fence.

A display of decorative foliage plants, azaleas and other flowering plants built around a waterfall, mountain meadow and pool was entered by Co-operative Wholesale Nurserymen, Inc. In this group were Select Nursery and Peter Robert Nursery, both of Whittier; Mossholder Nursery, El Monte; Conklin Roses, West Covina, and Buena Park Greenhouses, Buena Park.

Schnierow Nurseries, Inc., Los Angeles, had a tropical exhibit with a mannequin in Hawaiian costume before a grass hut.

Mordigan Evergreen Nurseries, San Fernando, exhibited a corner of a modern home built out of redwoods with a planting of hedges, creeping juniper and a garden bordered by miniature rosebushes.

An integral part of the show was the educational department, which adjoined the large nursery exhibits on the main floor. A semicircular display featured south African plants

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suitable for southern California gardens. The scene was the joint endeavor of a number of groups in the area.

A nearby shopping center was well-patronized throughout the show. Visitors could buy garden supplies and see demonstrations of home and garden equipment.

### National Capital Show

Officially launching a week-long, million-dollar floral spectacle at the nation's capital, the First Lady, Mrs. Dwight D. Eisenhower, was on hand at the National Guard armory, Washington, D. C., March 5, to cut the ceremonial ribbon and accept a bouquet of the new President Eisenhower rose.

The show, which ran from March 5 to 11 and was sponsored jointly by the Allied Florists' Association of Greater Washington and the National Capital League of Garden Clubs, was the third such affair to be held at the nation's capital and the first under sole local sponsorship. A nonprofit event, the show was designed to bring to professional growers the latest information on horticultural developments and, at the same time, to stimulate amateurs' interest in plants and increase their knowledge about them. The flowers, plants and other materials used in the exhibit were valued at more than \$1,000,000.

### President Eisenhower Rose

Appropriately staged at the entrance to the armory were two large rose gardens featuring the President Eisenhower, newest of the Star roses introduced by Conard-Pyle Co., West Grove, Pa. The new rose is a rich rose red with a lasting brilliance; its blooms are from four to five inches in diameter, with about 40 curved petals per bloom. The variety will be available for home gardens next fall.

In the center of the 2-acre octagon-shaped exhibition hall was a giant boxwood more than 100 years old, moved into the armory with 11 tons of soil. At one side, forming a backdrop for the rose gardens and boxwood, was a huge rock ledge garden, complete with waterfall and myriads of dwarf alpine plants, including a spruce more than 18 years old and only 18 inches high.

Other miniature plants in the same display, presented by A. I. Heimlich, Woburn, Mass., were unusual little daffodils, the *Narcissus cyclamineus*; the Japanese larch, and Japanese umbrella plants.

For the first time, the National Botanical Gardens entered an ex-

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hibit, consisting of a spectacular massed display of their celebrated azaleas. An educational exhibit was offered by the University of Maryland, College Park, Md., with a step-by-step account of the growth of azaleas from seeds to full maturity.

A special award offered by the federal district's evening newspaper, the Washington Evening Star, for the outstanding professional display, was received by Adolph Gude, of A. Gude Sons Co., Washington, D. C., and Rockville, Md. This display featured a colonial garden using boxwoods, white azaleas and yellow tulips.

### Repeats Coronation Theme

The American Carnation Society repeated the coronation theme it had depicted at its recent Philadelphia show. Under the supervision of Gude Bros. Co., the display showed an enthroned queen in regal array, with her ladies in waiting in Old English courtly garb. Gold and silver cloths formed a royal carpet leading to the throne. In the background stood six standards of woodwardia ferns and carnations. The queen held a bouquet of carnations, and each lady in waiting carried a silver basket of carnations. Vases and bowls of carnations were advantageously placed throughout this display, which also featured the new carnation, Mamie.

Further enhancing the grandeur of the show was an entire forest of pine trees that had been transplanted within the area and which lent their slender, graceful forms to a massed array of azaleas, dogwood, tulips, hyacinths and orchids.

A beautiful arrangement of tulips, displayed by the National Tulip Society, filled a spot near the center of the floor. Exhibits by the National Capital Orchid Show group as well as the American Security & Trust Co. showed selected blooms flown in by plane from the major orchid-growing centers of the world.

### Symphony of Flowers

The Allied Florists' Association of Greater Washington staged a "Symphony of Flowers," with many original arrangements, so staged as to be viewed at great advantage from several angles.

Roses, Inc., presented a delightful display of roses in tones running the gauntlet from pale to deep yellow, orange, pink and brilliant red. Mrs. Amelia Gude Thomas, who was in charge of the display, made effective use of this riot of color to stage a Mardi Gras setting, with a maiden astride a prancing steed, evoking the

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blessings of Proteus and Momus, lords of mirth and misrule.

In addition to Mrs. Eisenhower, who toured the show, Mrs. Richard Nixon and wives of members of the president's cabinet also took part in the opening ceremonies and stayed to examine the exhibits. One of the first ladies of the stage, Helen Hayes, who was a visitor, showed particular interest in the booth set up for the benefit of crippled children. All monies thrown by viewers of the show into wishing wells, which were scattered throughout the gardens, were donated to the crippled children's fund of the District of Columbia.

### Greater Cleveland Show

In a setting that faithfully recreated the theme "Tulip Time in Holland," flower growers of the Cleveland, O., area displayed their finest blooms at the 10th annual Greater Cleveland home and flower show, held at Cleveland from February 28 to March 8. Public response to the show was excellent.

A large windmill, assembled by sections and reconstructed on the stage, set the mood for the show. It was flanked by three typical Dutch shops—a flower store, a cheese shop and a gift mart—with mannequins in authentic Dutch garb posing be-

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fore each establishment. Continuing the motif, a canal ran from the stage end of the auditorium half the length of the room, between two lanes of tulips. The canal boasted a boat and, at the stage end, a small bridge, over which viewers could pass.

Present for the opening of the show was Dr. Jan Herman van Roijen, ambassador from the Netherlands to the United States. Judging of the gardens that had been entered in competition took place shortly before the show was opened to the public. Evaluating the exhibits, which used 6,000 hyacinths, 7,000 tulips, 500 roses, 7,000 azaleas and 4,000 daffodils, as well as gardenias, violets, lilacs and other blooms, were Greenville Gude, of Gude Bros. Co., Washington, D. C.; Vincent De Petris, Grosse Pointe, Mich., and William Loveridge, Peoria, Ill.

In the large garden competition, first prize was awarded to Fred Schneider & Sons, Rocky River, O., for a formalized planting in which roses, including tree roses, predominated. Second prize went to Gali Greenhouses, Warrensville, O., for a restful garden of azaleas and evergreens, with Japanese yew trees forming a hedge at the back.

Honorable mention went to William Merkel & Sons, Mentor, for a garden featuring Mentor Boy violets, gardenias and lilacs. Kurt Laubinger & Sons, Macedonia, also received honorable mention for an intricately patterned garden of tulips, hyacinths, grape hyacinths and Kurume azaleas.

#### Small Garden Winners

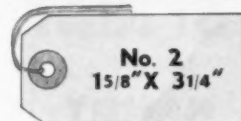
Gene Case, of W. L. Case Greenhouses, Rocky River, took first prize in the small gardens division with his simple garden featuring early summer-flowering bedding plants. As Mr. Case had been hospitalized for several weeks, Otto Schmidt, a neighboring grower, assisted him in constructing the garden and in forcing the plants used.

Frank Spear, of Stony Acres Gardens, won second prize in this class with a formal garden of geraniums, kalanchoes and other blooms set around a lily pool. C. R. Perkins & Sons, Westlake, received honorable mention for a formal planting of chrysanthemums and other fall flowers.

Directly in front of a fountain at the back of the hall was an orchid display arranged by A. J. Neill, of Thomas Young Greenhouses, Gates Mills, featuring a huge shadow box framing cattleya, cymbidium, cypripedium, odontoglossum and phalaenopsis varieties.

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